



Shaping a SUSTAINABLE ENVIRONMENT, NOW!



SUEZ Asia Sustainable Development Report 2019

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ABOUT THIS REPORT

The sustainability strategy, initiatives and performance of SUEZ Asia, covering the company's businesses in Greater China and Southeast Asia are disclosed in this Sustainable Development Report (the "SD Report"), which depicts how relevant and material sustainability issues are managed and integrated into our business strategies.

Reporting Scope

Unless otherwise stated, report disclosures cover SUEZ Asia's business operations. Please refer to "About SUEZ Asia" for our business portfolio.

Reporting Framework

The sustainability disclosures in this Report reference locally and internationally recognised reporting guidelines and sustainable development frameworks including the Environmental, Social and Governance Reporting Guide ("ESG Guide") set out in Appendix 27 of the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong, the Global Reporting Initiative ("GRI") Standards, and the United Nations Sustainable Development Goals ("SDGs").

Reporting Period

1 January 2018 to 31 December 2019

Reporting Form

This report is available in English, Traditional Chinese and Simplified Chinese in print and online.



Steve CLARK
CEO, SUEZ Asia




“

Working in the environmental service sector, we feel even more responsible to lead by example. We must allow our sustainable decisions to speak for themselves.

”






There is no doubt that the world is undergoing profound changes, as megatrends like the climate emergency, digital transformation, demographic shifts and growing public expectations shape societies and the future of industry. Against the backdrop of today's unprecedented public health crisis, collective action on social and environmental issues is absolutely vital.

The COVID-19 outbreak has proven that environment, biodiversity, climate, economy, health and quality of life are inextricably linked. Economic recovery will therefore depend on the ability of each segment of society to design and deploy sustainable solutions that acknowledge this fact. In China, and across Southeast Asia, we are thrilled to see that governments have been long engaged in global climate governance, making protection of the environment and the creation of a circular economy sustainable development priorities.

As a leading environmental company and an industrial service benchmark in Asia, SUEZ has a strong history of leadership in driving sustainable development in the region. Since 1953, we have supported Southeast Asian countries in enhancing drinking water quality, as well as in sanitation and waste management services, to meet the needs of growing populations. Over the past 40 years, we have expanded our support to Greater China, working with partners to realise



the sustainable development plans of local governments and support the success of communities. At the same time, we have continued to drive our own business growth.

We know from the United Nations that the private sector will be the most significant in delivering the Sustainable Development Goals. Working in the environmental service sector, we feel even more responsible to lead by example. We must allow our sustainable decisions to speak for themselves. We cannot afford to deprioritise the environmental and climate crises. The consequences of doing so – flooding, drought, more frequent extreme weather, a sharp drop in biodiversity, etc. – are already evident. Instead, we must urgently rethink traditional models, to reduce the vulnerability of our societies. In the long term, economic recovery will only succeed if it turns towards decarbonised, environmentally virtuous solutions that promote the circular economy.

Environmental sustainability is not a goal for a single person, organisation or group. It requires each of us to make changes in areas as fundamental as the food we eat and the modes of transport we use to get around. It is important that we act collaboratively, now, to shape a sustainable environment and guarantee the future of coming generations.

“Sustainability is at the heart of everything we do. It is an integral part of our company’s values, principles and standard behaviours. We practise what we preach.”



Joey CHIO

Chief Communications and
Sustainability Officer,
SUEZ Asia



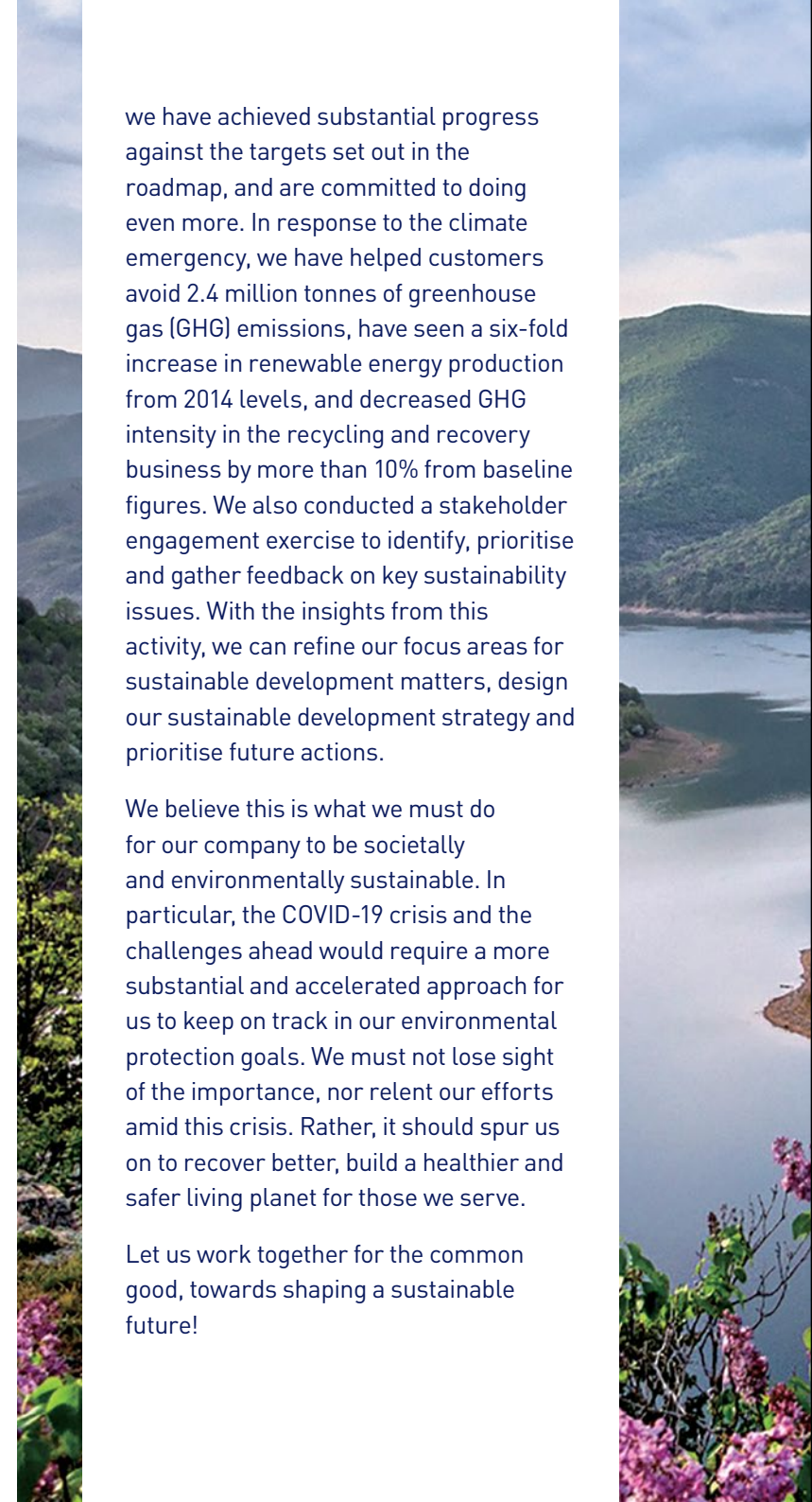
Today, everyone talks about sustainability. But making a genuine difference instead of just creating a token “value add” is a real challenge. At SUEZ, sustainability is at the heart of everything we do. Our commitment to it extends across our solutions, our value chain, our business model, and our culture. It is an integral part of our company’s values, principles and standard behaviours. We practise what we preach.

Adapting to priorities and conditions unique to Asia, in 2017, we launched the first Sustainable Development Roadmap (2017 – 2021). Over the past three years, together with our local partners and with the efforts of each of our employees,

we have achieved substantial progress against the targets set out in the roadmap, and are committed to doing even more. In response to the climate emergency, we have helped customers avoid 2.4 million tonnes of greenhouse gas (GHG) emissions, have seen a six-fold increase in renewable energy production from 2014 levels, and decreased GHG intensity in the recycling and recovery business by more than 10% from baseline figures. We also conducted a stakeholder engagement exercise to identify, prioritise and gather feedback on key sustainability issues. With the insights from this activity, we can refine our focus areas for sustainable development matters, design our sustainable development strategy and prioritise future actions.

We believe this is what we must do for our company to be societally and environmentally sustainable. In particular, the COVID-19 crisis and the challenges ahead would require a more substantial and accelerated approach for us to keep on track in our environmental protection goals. We must not lose sight of the importance, nor relent our efforts amid this crisis. Rather, it should spur us on to recover better, build a healthier and safer living planet for those we serve.

Let us work together for the common good, towards shaping a sustainable future!





SUSTAINABLE DEVELOPMENT

is a strategic imperative for SUEZ Asia and is integrated into our core business strategy.

ABOUT SUEZ ASIA

SUEZ is a global leader in smart and sustainable resource management. Backed by 160 years of experience, SUEZ draws on the expertise it has been developing since the late 19th century to help people constantly improve their quality of life by protecting their health and supporting economic growth. As a committed partner to local communities, industry players and citizens in Asia, SUEZ mobilises stakeholders to succeed in the environmental transition, developing circular business models and innovating to plan for tomorrow's challenges.

SUEZ in Asia



9,000+
employees



Presence in **20**
Asian industrial parks



32
million+
people benefit from our water
and waste services



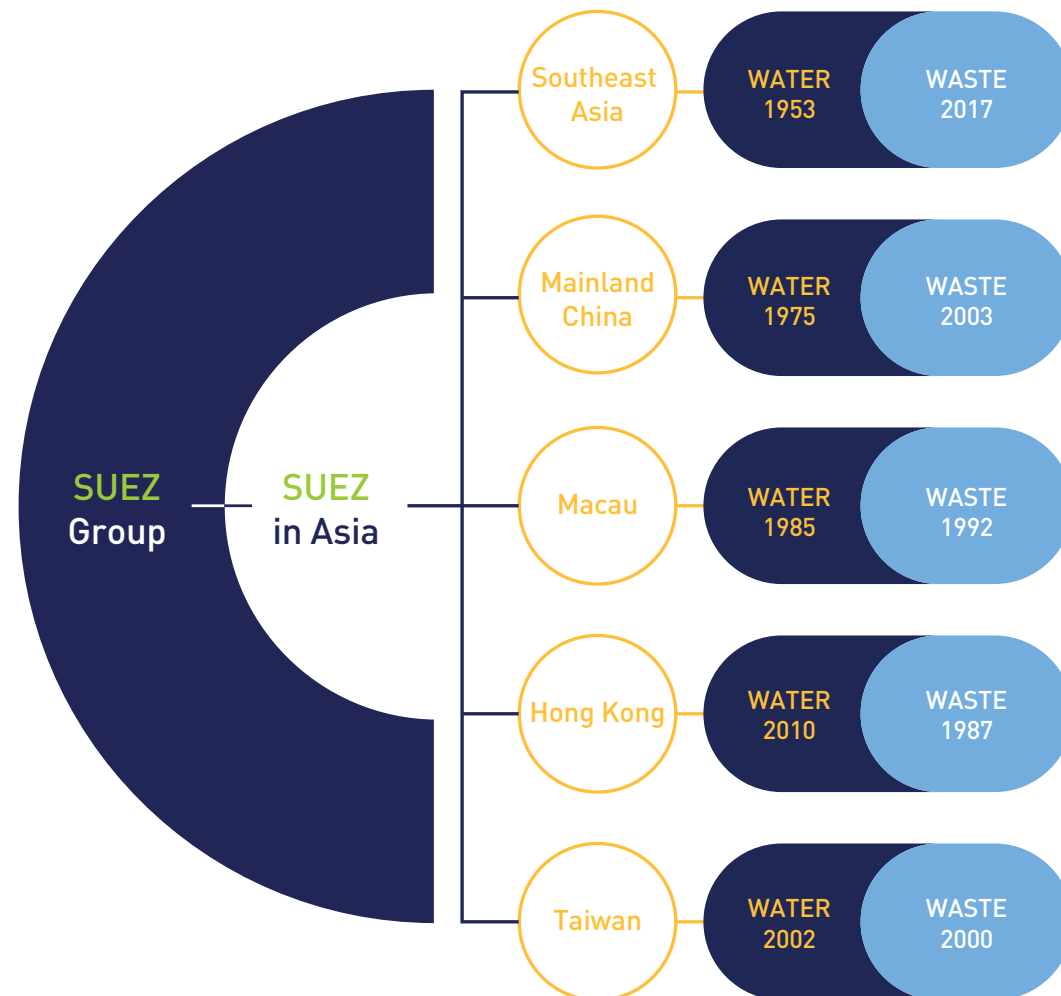
460+
water or wastewater
treatment plants built



70+
water and waste projects
we manage

SUEZ PRESENCE IN ASIA

Started from water services in 1953, SUEZ today encompasses the essential business segments of Water Operations, Recycling and Recovery, Treatment Infrastructure, and Smart and Environmental Solutions across Asia.



Our operations in the Greater China region are managed under SUEZ NWS, a joint venture between SUEZ and NWS Holdings Limited. With over 70 joint ventures with local partners, SUEZ NWS helps authorities and industries develop innovative solutions to address climate change and sustainable resource management.

BUSINESS PORTFOLIO

We work to provide access to essential environmental services for everyone. We supply high-quality water, suited to every type of use, and ensure the protection of this common good. We recover wastewater and waste to convert them into new resources.



Treatment Infrastructure



Water Operations

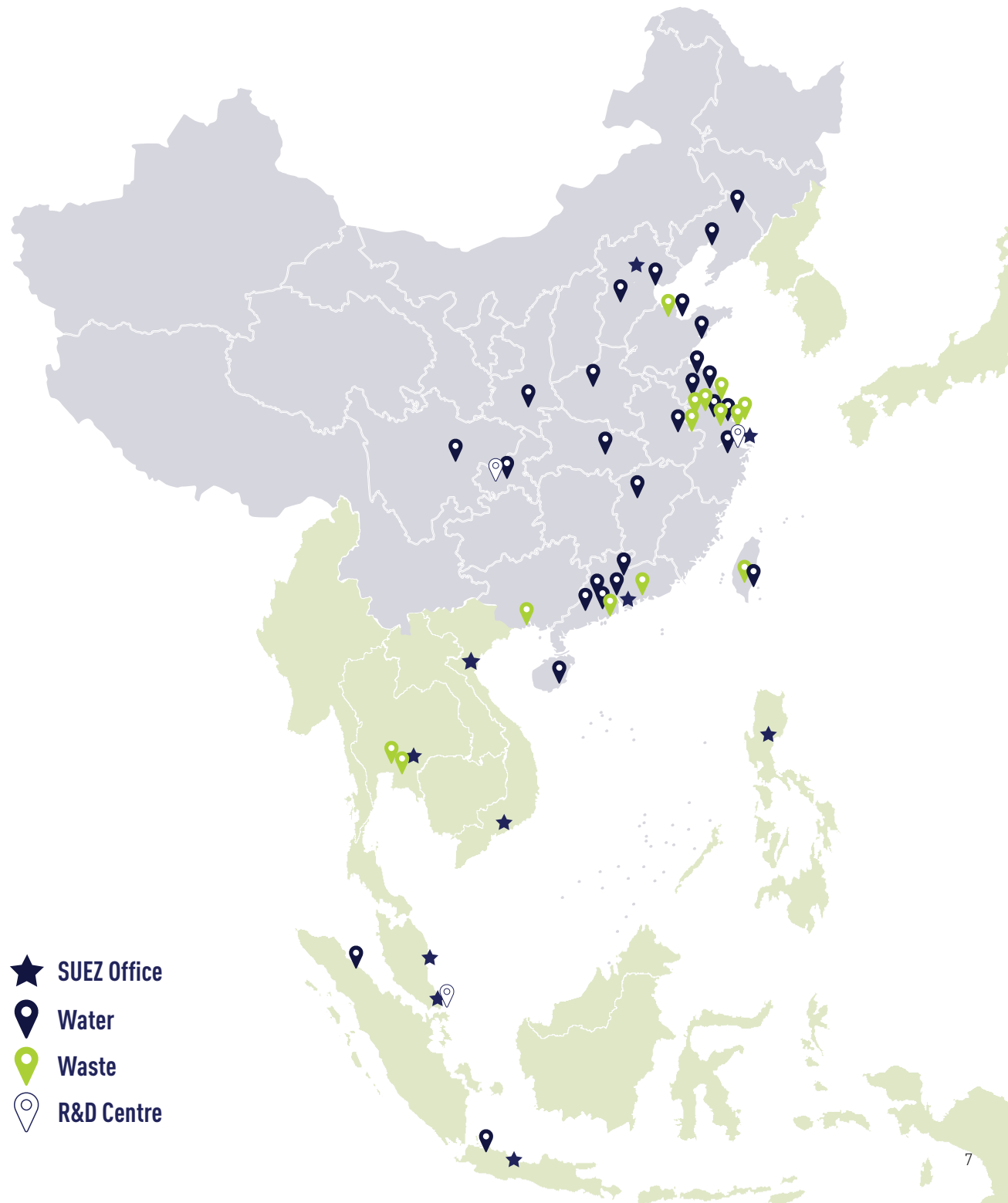


Recycling and Recovery



Smart and Environmental Solutions

- ★ SUEZ Office
- 📍 Water
- 📍 Waste
- 📍 R&D Centre



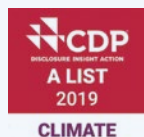
SUSTAINABILITY INDICES

SUEZ is committed to continuous improvement in sustainability performance, and has earned leadership positions in several major sustainable development-related awards and indices.



Outstanding Non-Financial Performance

- **DJSI:** 11th consecutive year in the DJSI World Index
- **Vigeo Eiris:** Top place in Waste and Water Utilities, 3rd place worldwide across all activity sectors
- **CDP:** Only French utility company present 4 years in a row in the CDP A list
- **EcoVadis:** Gold level, best performing 5% of companies



2018 SDG Pioneer

SDG Pioneer

Climate Action through Resource Efficiency in Water and Waste Management



A Global Compact LEAD Company

- Patron sponsor of the Low Carbon and Resilient Development Platform
- Member of the Water Security through Stewardship Platform



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Verified by the SBT Initiative

The first environmental services company worldwide



ALLIANCE TO
END PLASTIC WASTE

Alliance to End Plastic Waste

Founding member of Alliance to (End Plastic Waste with nearly 50 other companies)

“ Our purpose is the reflection of our vocation:
**Shaping a sustainable
environment, now.** ”

SUEZ draws on the expertise it has been developing since the late 19th century to help people constantly improve their quality of life by protecting their health and supporting economic growth. In October 2019, SUEZ launched a new strategic plan, **Shaping SUEZ 2030**, to position the Group for the challenges of the next decade. Our ambition is to be the global leader in environmental services, making us the preferred choice of our customers, employees and stakeholders, working together to restore and preserve the fundamental elements of the environment: **water, air and soil**.

SUEZ's Value Proposition

- Health and quality of life
- Positive climate impact
- Positive impact on the planet's natural capital
- Waste no more, with 100% circularity and 100% traceability of impact
- Local anchoring with stakeholders

From Sustainability Leadership to Setting New Standard for 2030

- ✓ Reduce GHG emissions by 45% (vs. 30% previously), in line with +1.5°C trajectory/carbon neutrality in 2050
- ✓ 100% sustainable solutions
- ✓ 20 million tonnes of CO₂ emissions saved yearly, within the SUEZ Group, for our customers

Given the impact of circular economy on our customers, the emergence of new business models and competitors, combined with a profound shift of citizens' mindset towards climate crisis and a need for concrete action – SUEZ will accelerate its transformation through this ambitious plan, and an evolution of the company's culture that focuses on engagement with our customers and from our employees.

Passion For The Environment



Customer First



Respect



Team Spirit

The Four
Values of the
SUEZ Winning
Spirit

An aerial photograph of a salt flat, likely in the Philippines, showing a complex network of dark, winding paths that divide the flat into numerous small, irregular pools of water. The water in the pools is a deep, vibrant blue. A single person is walking along one of the paths in the lower right quadrant of the image. In the top right corner, there are faint, overlapping white circular lines, suggesting a design element or a logo.

OUR SUSTAINABILITY COMMITMENTS

We monitor the megatrends which will shape our operating environment and the related risks and opportunities in the region to prepare ourselves for the future and ensure our business operations continue to contribute to sustainable development. To respond to the challenges and opportunities arising from these megatrends in the context of urbanisation and development in Asia, we are committed to supporting the region's cities and industries in their sustainable growth and transition to a circular economy.

In line with the Group's 2017–2021 Sustainable Development Roadmap, we have developed the SUEZ Asia Sustainable Development Targets for 2021 in order to guide our activities as we manage sustainability risks and capture business opportunities.

**SUEZ Asia
Sustainable
Development
Targets for 2021**



Priority One

Be a collaborative, open
and responsible company

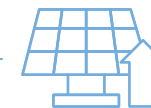
36% of management positions
filled by women



Priority Two

Be a leader in the circular
and low-carbon economy

6.05 times
increase in renewable energy
production compared to 2014



Priority Three

Support our customers'
environmental transitions
with concrete solutions

50% increase in the number of
connected objects to accelerate
the digital revolution



Priority Four

Contribute to the
common good

Purchase from SMEs
>70% in Water Operations
>85% in Waste Business





CLIMATE EMERGENCY



Key Facts

+1.5°C

Global warming threshold set out in the Paris Agreement

45% by 2030

Recommended emissions reduction to meet the +1.5°C limit by 2100

Water scarcity is affecting a quarter of the world's population and the severity will increase



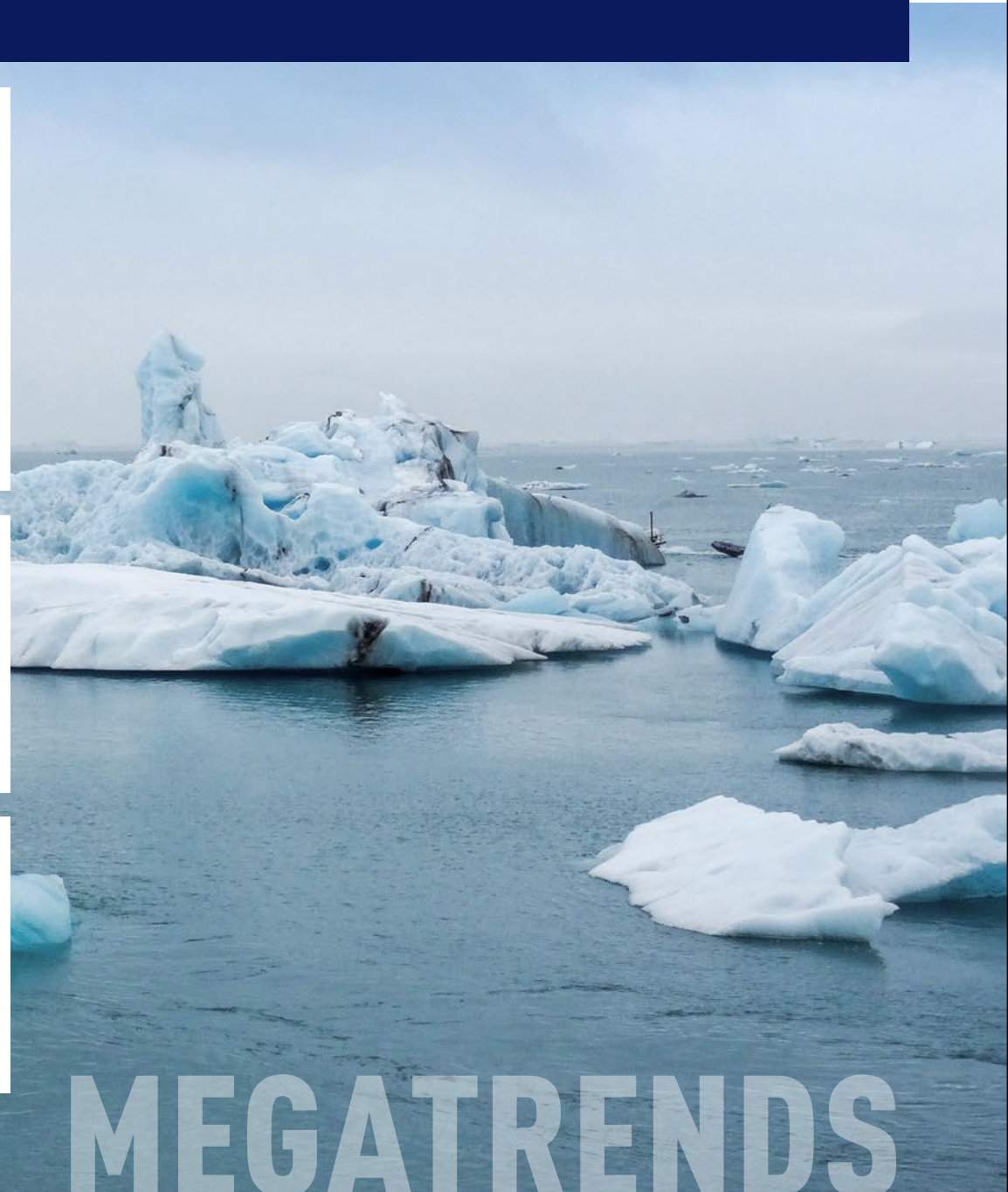
Risks and Opportunities

- Water scarcity
- Increase in extreme weather events
- Natural capital depletion
- Solutions for resilient cities and ecosystem protection
- Waste recovery



Responses from SUEZ Asia

- Established a Science Based Target to limit climate risks
- Maintain low non-revenue water rates
- Transform waste into energy
- Provide integrated industrial wastewater treatment solution
- Integrate biodiversity considerations in our projects



MEGATRENDS

DIGITAL TRANSFORMATION



Key Facts

More than **50%** of the world's population is now online. Roughly one million more people join the internet each day

Across many sectors, technological innovation is already transformative and shifting towards lower carbon solutions

The Internet of Things ("IoT") can help lower CO₂ emissions by optimising energy consumption



Risks and Opportunities

- Shifting competitive environment
- Failure to meet technological capabilities
- Innovative resource management
- Improved energy management due to digital data access



Responses from SUEZ Asia

- Introduced real-time water and waste management systems as well as smart asset management platforms
- Expanded R&D centres
- Increased number and diversity of innovative projects
- Developed data monitoring platform covering water, air and soil



DEMOGRAPHIC SHIFT



Key Facts

By 2030, the global population is expected to reach **8.5** billion

Persons aged **65** and above comprise the fastest growing age group

More active female participation in non-traditional roles and industries worldwide is expected



Risks and Opportunities

- Ageing population
- Talent retention
- Women's empowerment
- Internal capacity building



Responses from SUEZ Asia

- Developed SUEZ Women Asia Network ("SWAN")
- Conducted Employee Engagement Survey
- Foster young talents
- Launched Mentoring Programme and Leadership Development Training
- Organised H&S Fair Culture Programme

PUBLIC EXPECTATIONS



Key Facts

A global survey found that consumers strongly agree that companies should help improve the environment

The Chinese government has declared a

“WAR ON POLLUTION”

Thailand plans to achieve

100% plastic recycling by 2030



Risks and Opportunities

- Public movement against climate inaction
- Damage to enterprises' reputation due to mismanagement of sustainability issues
- Attractiveness of a community-focused business
- Shared value creation for local communities



Responses from SUEZ Asia

- Strengthened sustainability management and transparent external reporting system
- Support societal development through partnerships
- Circularity through waste-to-energy and material recovery
- Restore ecological systems to preserve biodiversity

SUSTAINABLE DEVELOPMENT IN ASIA

Since SUEZ's entry into Southeast Asia in 1953, we have been leveraging technological advancements and deploying expertise to help the region's governments achieve their long-term sustainable development objectives. Some Asian countries have started to integrate the SDGs into their existing national development plans, policies and legislation, as well as enhancing sustainability governance at the national level. These high-level strategies and proactive responses show that many governments in Asia have either committed to start tackling emerging sustainability issues or have demonstrated that they are moving to take the lead in the transformation needed to achieve their development goals.

One of the major sustainable development plans in the region is China's 13th Five-Year Plan which listed the "active implementation" of the SDGs as a top priority. China has subsequently released the National Plan on Implementation of the 2030 Agenda in order to analyse challenges and opportunities for the implementation of the SDGs, and set general principles and action plans. China has focused on green growth through circular business models as well as cleaning up and beautifying its natural environment to enhance the quality of life for its citizens.



SUEZ Asia's Sustainable Development Targets for 2021

SUEZ established the Group's 2017–2021 Sustainable Development Roadmap, which is built on four priorities providing strategic direction on 17 commitments. By taking into account the local context in Asia, we have distilled the focus to 13 commitments and developed the SUEZ Asia Sustainable Development Targets for 2021, which guide our sustainability efforts and help ensure that sustainability considerations are integrated into our business decisions and functions.

2019 Performance



>10%
GHG emission
intensity reduction in recycling
and recovery business



88.5%
of employees trained



2.36 million tonnes
of greenhouse gases
emissions avoided since 2014



0.45
safety frequency rate in
Water Operations



6.05 times
increase in renewable
energy production
compared to 2014



4.46
safety frequency rate in
recycling and recovery business



15.96 million m³
of water produced using
alternative methods



1 start-up
acquired to foster collaborative
and partnership working



350,612 tonnes
of secondary raw materials
produced



55%
coverage in IT collaboration tools

SUEZ Asia SD Targets and Performance

88.5% trained
36% women
98% coverage; 68% participation

100% coverage
Water: 0.45; Waste: 4.46

Up to 55% coverage
1 start-up acquired

875
Covers 100% employees through training, newsletter, etc.

Promote diversity and wellbeing at workplace

Train 80% of employees every year
33% of management positions filled by women
100% coverage and 80% participation in commitment surveys

Act to ensure health and safety at work

100% restricted access zones with signage systems
Reduce safety frequency rate (Water: <1.32; Waste: < 6.4)

Foster collaborative and partnership working

Increase coverage of IT collaboration tools
2 start-ups in which the Group acquires an interest

Master the stakes linked to globalisation

Number of supplier contracts with CSR clauses
Proportion of employees aware of cybersecurity

Accelerate the digital revolution in water and waste solutions

Increase the number of connected objects by 20%

Innovate to develop decentralised or modular solutions for the territories

Increase the number of decentralised or modular solutions in desalination, water, sanitation and waste

Sustain trust by reinforcing the means for inclusive governance

For all strategic projects and contracts, analyse local issues and map stakeholders in order to define the most appropriate means of dialogue

Be a collaborative, open and responsible company



2

Be a leader in the circular and low-carbon economy



4

Contribute to the common good



Adhere to the 2 degrees target by mitigating the causes of climate change

Reduce GHG emissions by 10% vs 2014
Help customers avoid >3.46 million tonnes of GHG from 2014
Increase the production of renewable energy by 5.67 times vs. 2014



Adapt to the consequences of climate disruption on water

Systematically offer to our customer plans of resilience to the effects of climate change
Promote alternative water production (seawater, desalination, wastewater reuse, etc.)
Save the equivalent of water consumption of 254,000 inhabitants compared to 2016



Promote material recycling, recovery and reuse

Increase the production of secondary raw materials by 20%
Achieve a ratio of 0.02 tonnes of waste for reuse per every tonne of waste that is disposed of



Act for the health of the environment and the protection of the oceans

Constantly maintain air emissions under the levels required by local regulations



Promote biodiversity and ecosystems services

Implement biodiversity strategy in all entities



Contribute to local development and territorial attractiveness

Proportion of purchases from SMEs
The annual number of partnerships with socially responsible and environmental entrepreneurs

Objectives Progress

>10% GHG emission intensity reduction in recycling and recovery business (despite an overall increase of 11% in GHG emissions due to business growth)
2.36 million tonnes avoided
6.05 times increase

Ongoing as per global guidance

15.96 million m³

Saved water equivalent of 643,805 inhabitants

137 times increase (new projects introduced)

0.08 tonnes reused

Strictly adhered to accordingly to local regulations

Ongoing as per global guidance

Water: >70%; Waste: >85%

6 partnerships

STAKEHOLDER ENGAGEMENT AND MATERIALITY ASSESSMENT

To determine the most material sustainability topics for disclosure in this Report, we conducted a stakeholder engagement and materiality assessment in 2019. This also helps us steer the sustainable development direction and fine-tune sustainability focus areas in Asia.



SUSTAINABLE DEVELOPMENT GOVERNANCE

SUEZ Asia has a well-established sustainable development governance structure to ensure the smooth and effective implementation of our sustainable development strategy across our business segments, set objectives, monitor performance and ensure overall accountability.

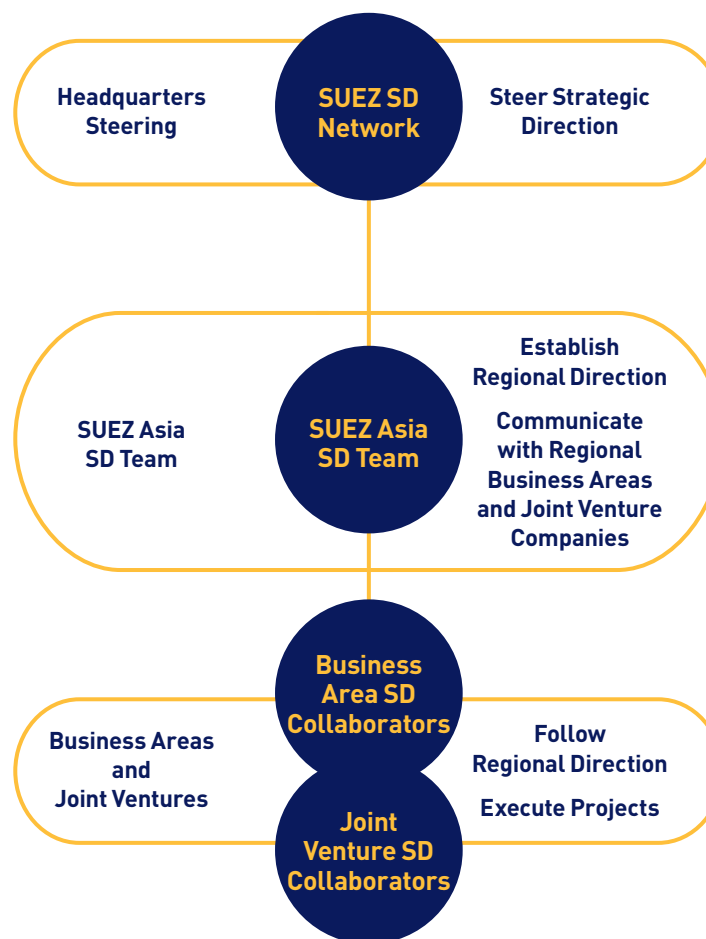
Board Oversight

At the board level, the “CSR, Innovation, Ethics, Water and Sustainable Planet” Committee at SUEZ Group has strategic oversight over compliance with the individual and collective values on which SUEZ bases its directions and the rules of conduct of all employees. The Committee is also responsible for examining all sustainable development matters and assessing the sustainable development indicators as well as the 2017 – 2021 Sustainable Development Roadmap. SUEZ Asia formulates sustainable development guidelines and practices which follows the directions set by SUEZ Group.

Management Roles

The SUEZ Asia Sustainable Development (“SD”) Team, led by the Chief Communications and Sustainability Officer, has a primary role in regional SD direction and management. The team head reports directly to the CEO of SUEZ Asia who is a member of the SUEZ Performance Management Committee. The SUEZ Asia SD Team is a member of the SUEZ SD Network and holds regular meetings to discuss sustainability direction and the Roadmap for regional implementation. The SUEZ Asia SD team also establishes the regional direction of the Group’s policies, practices and requirements and communicates closely with regional business areas and joint ventures.

SD Governance Structure



Conducting Our Business Ethically

We are committed to conducting business in an ethical manner. SUEZ Asia’s Ethics Charter and Practical Guide provide clear guidelines to our employees. We also provide regular training for our employees on the Group’s ethical principles and guidelines as well as local anti-corruption regulations.

Managers at SUEZ are expected to communicate, educate, train and monitor employees to ensure they behave according to the company’s principles. We also have an Ethics Officer to participate in setting ethical rules, ensuring proper implementation as well as offering advice and best practices on business ethics. Reporting, monitoring and internal audit procedures are in place to ensure compliance, with a dedicated email address for queries or reporting of relevant concerns.

SHAPING A SUSTAINABLE ENVIRONMENT

We deliver innovative environmental solutions to combat climate change.



Refer to [SUEZ Asia Sustainable Development Targets for 2021](#) for descriptions.

The effects of the current **climate emergency** vary greatly across Asia. In Southeast Asia, we have witnessed intensified flood and drought events. Coastal countries and cities such as Singapore, Hong Kong and Macau are increasingly vulnerable to extreme weather events, including typhoons and intense rainfalls which increase the risk of flash floods. On the contrary, there are also periods of drought affecting the availability and reliability of water supplies across the region. Countries including China and those in Southeast Asia developed plans to increase the countries' resilience to climate change through action plans, digitalisation and innovative technologies. The **digital transformation** could unlock opportunities for real-time monitoring and data driven decision-making. Facing these trends, SUEZ's services provide innovative solutions to tackle climate-related challenges. Working closely with our stakeholders and industry partners, we present a more sustainable option for clients who aspire to advance a circular economy.

>10% GHG emission
intensity reduction in recycling and
recovery business



2.36 million tonnes
of greenhouse gas emissions
avoided since 2014



0.08 tonnes of waste reused
for each tonne of waste disposed of



INNOVATIVE DIGITAL AND SMART SOLUTIONS FOR A SUSTAINABLE FUTURE

SUEZ Asia's R&D Achievements

Innovation has always been at the heart of SUEZ. Since 2006, we have made remarkable technological developments in Asia through establishment of five research and development ("R&D") centres with our partners, specialising in industrial water supply, wastewater treatment, as well as solid waste treatment and waste recovery. Over the years, we have also won R&D awards and obtained patents for outstanding achievements. These cutting-edge technologies and services further support our clients and partners on industrial risk mitigation, operational cost reduction, financial sustainability, long-term asset performance and enhancement of the end use experiences. Our R&D efforts and achievements allow us to shape the sustainable future of the utility industry.



AQUADVANCED® Urban Drainage

A digital solution for real-time water quality monitoring and smart stormwater control system



AQUADVANCED® Energy Management

A real-time optimisation system for water distribution networks



Embedded Wastewater Treatment Plant Concept

Transforming the concept from "Receiving and Treating Unit at Wastewater Terminal" to an "Environment-friendly Resources Integration Unit"



Ice Pigging

A solution that offers significant water savings compared to traditional flushing techniques for pipe cleaning

In 2018, SUEZ unveiled its 5th research centre in Asia specifically to develop innovative solutions in water treatment. The new centre targets five research areas of chemistry, materials, bio-engineering, chemical engineering and environmental science and focuses on the removal of non-degradable Chemical Oxygen Demand, advanced membrane/electro-separation, zero liquid discharge solution for highly concentrated wastewater, digital technology and services, efficient and green water treatment solutions and solutions for sophisticated chemical processes. The new research centre improves our technological capabilities for smart and sustainable resource management.



Our Water Research Centre
in SCIP awarded **33** patents

2018

→ SUEZ R&D Centre – water treatment in Shanghai

2017

→ SCIP Waste R&D Centre – hazardous waste treatment and recovery

2015

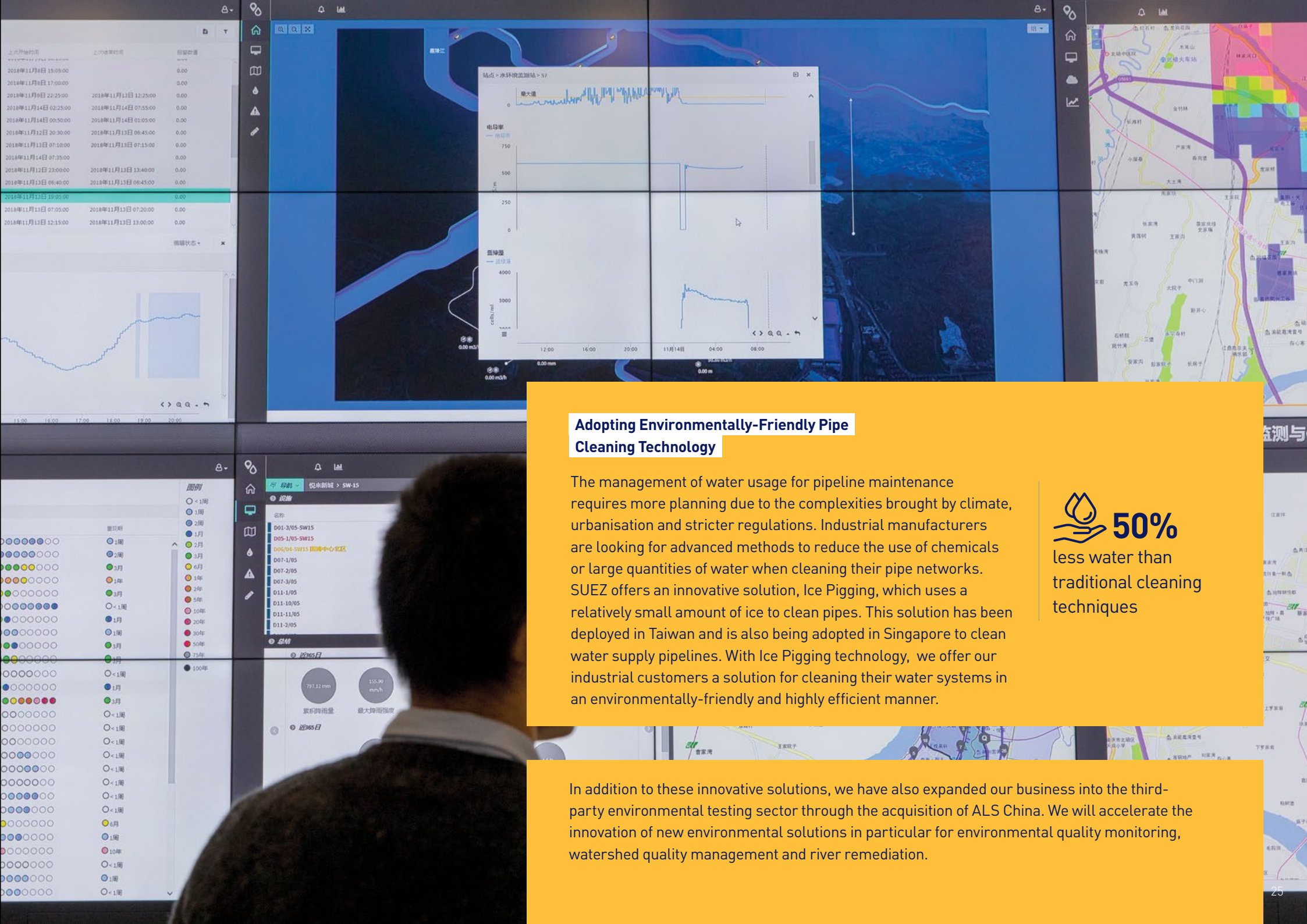
→ Singapore Water Technology Centre – water technology and bio and environmental engineering

2012

→ Chongqing Sino French Environmental Excellence Research and Development Centre – water, wastewater and waste treatment

2006

→ SCIP Water Research Centre – industrial water supply and wastewater treatment



Adopting Environmentally-Friendly Pipe Cleaning Technology

The management of water usage for pipeline maintenance requires more planning due to the complexities brought by climate, urbanisation and stricter regulations. Industrial manufacturers are looking for advanced methods to reduce the use of chemicals or large quantities of water when cleaning their pipe networks. SUEZ offers an innovative solution, Ice Pigging, which uses a relatively small amount of ice to clean pipes. This solution has been deployed in Taiwan and is also being adopted in Singapore to clean water supply pipelines. With Ice Pigging technology, we offer our industrial customers a solution for cleaning their water systems in an environmentally-friendly and highly efficient manner.

 **50%**
less water than
traditional cleaning
techniques

In addition to these innovative solutions, we have also expanded our business into the third-party environmental testing sector through the acquisition of ALS China. We will accelerate the innovation of new environmental solutions in particular for environmental quality monitoring, watershed quality management and river remediation.

PROVIDING WATER MANAGEMENT SOLUTIONS

As the global leader in water management, we are dedicated to applying the most advanced water treatment technologies and management expertise in Asia to preserve precious water resources. We deploy our expertise and innovative processes and solutions to help our partners preserve and restore scarce water resources despite rising demand due to industrial development, population growth and urbanisation. From drinking water production to reuse of treated wastewater for industrial purposes, we assist decision-makers in the sustainable management of water supplies within the water cycle.

Optimising Water Supply Efficiency

Many regions of China are facing different water scarcity issues. Surrounded by the sea on three sides and welcoming a large number of visitor arrivals, Macao is facing a growing demand for freshwater. Since 1985, Macao Water, a subsidiary of SUEZ, has been providing drinking water services to the city that surpass the standards set out by the World Health Organization. Our patented AQUADVANCED® Smart Network performance monitoring system, has also been introduced to help monitor water supply flow, hydraulic pressure, water quality and energy consumption, predict operational risks, as well as improve the water supply system. Additionally, a new energy-efficient water treatment plant, featured with green plant concept, will be commissioned by 2020 to tackle the growing population and limited access to freshwater for the next decade. Today, Macao Water has managed to significantly reduce the non-revenue water ("NRW") rate from 18.1% in 1985 to 7.5%, which is far lower than the average in Asia and even in the world. Its significant performance excellence is also recognised as a benchmark and an example in the China water industry.



7.5%
non-revenue water
rate in Macao Water

In Chongqing, a mega-city with a population of 30 million, water demand has been growing rapidly and it is the local government's top priority to ensure a sufficient and sustainable supply of clean water to local residents. SUEZ has been responsible for the piped water production and distribution in the northern parts of Chongqing. We currently manage five water plants and 13 water pumping stations, serving a population of 2.4 million in Chongqing. We have also upgraded the plants with smart installation system and a new panoramic smart digital command hub to ensure continual, safe and quality water supply. Through advanced management processes and technological upgrades, the water supply management capacity, tap water quality and customer service levels have been remarkably elevated.



Save the equivalent
of water consumption
of **643,805**
inhabitants in Asia





Reinforce networks
leakage inspections



Renovate networks in
old compounds and
rural areas



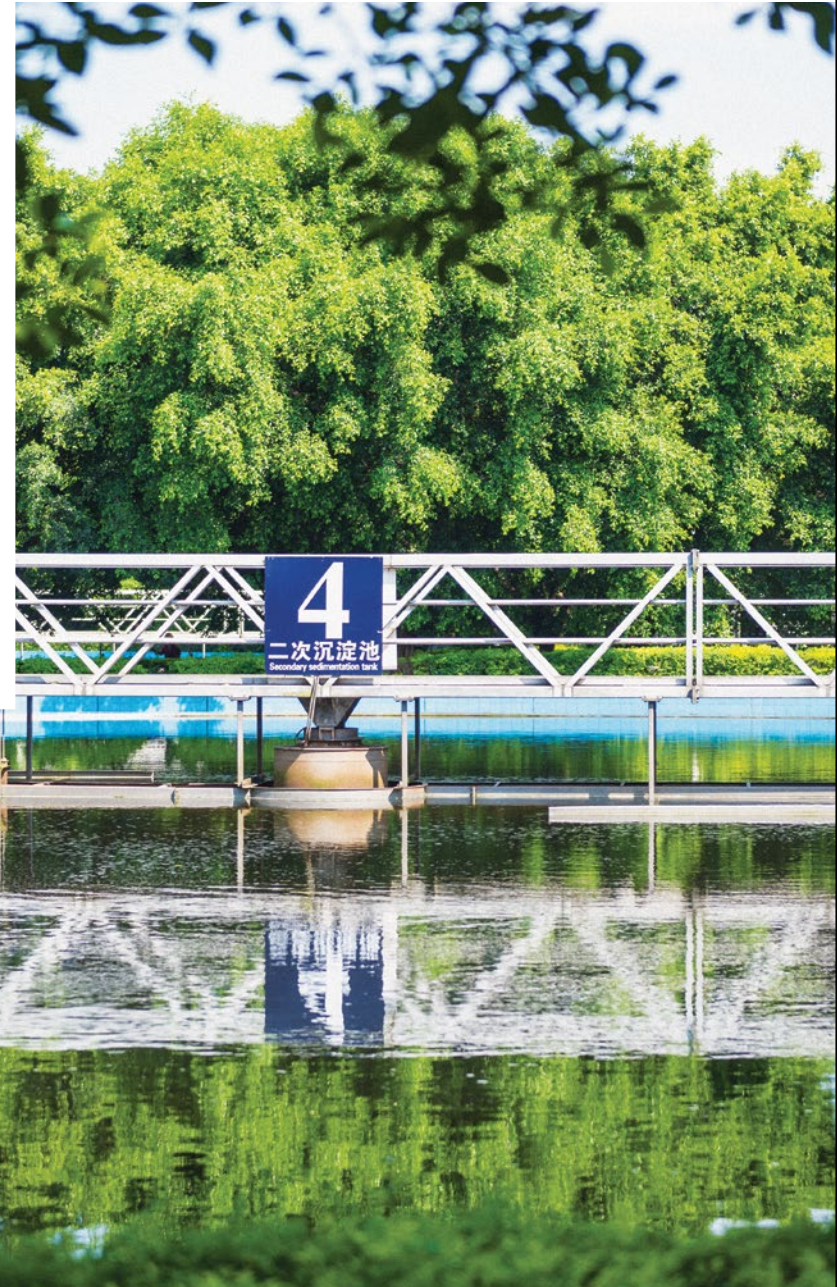
Upgrade meters
and valves

PROVIDING MUNICIPAL AND INDUSTRIAL WASTEWATER TREATMENT

Wastewater treatment has been a core service since SUEZ's early entry into the region. In China, our first wastewater treatment plant ("WWTP") was built in 1975. Since then, we have continued to support sustainable development as we treat and recycle wastewater to mitigate water scarcity and relieve pressures on local aquatic ecosystems from pollutants. We are working with our municipal partners to protect water resources in Beijing, which faces water scarcity challenges as a result of climate change and urbanisation. With the added benefit of saving valuable land, the Beijing Huaifang WWTP is Asia's largest underground WWTP with a membrane bioreactor to improve wastewater and sludge treatment capacity as well as flood control and treated water quality. The WWTP has the capacity to recycle 200 million m³ of wastewater per year and adopting a circular model, the treated wastewater is used for both industrial and commercial purposes and to replenish the adjacent water bodies and the wetlands above. The plant's upgraded design also increases its preparedness against rainstorms and flood events.



Focused on high-quality and sustainable urban development along the Yangtze Economic Belt, the Chinese government has entrusted SUEZ as a partner in fulfilling its ambition for green growth coupled with ecosystem preservation and restoration in the region. In Chongqing, the Chongqing Tangjiatuo WWTP is focussed on delivering quality services to China's largest municipality. The plant is one of the best-equipped and technologically advanced WWTPs in Western China, meeting the most stringent wastewater discharge standards across the country to avoid significant impacts on Yangtze River and the Three Gorges Reservoir area. The plant adopts the advanced A-A2O biological treatment process and the INNODRY®2E sludge drying process. It uses hydropower generation which saves 10% of the power consumption and adopts reclaimed wastewater recycling which reduces water usage by 94%. These solutions save 4 million Nm³ of natural gas, 550 kWh of electricity, and 3.7 million m³ of water every year effectively protecting water sources and improving the quality of life for residents in Chongqing.



TREATMENT



In Qingdao, our Dongjiakou WWTP provides industrial wastewater treatment services to industrial clients, including port, steel and chemical industries as well as commercial clients in the Dongjiakou Economic Zone, with a daily treatment capacity of 20,000 m³. The WWTP treats the wastewater generated from the adjacent steel plant and the output meets the steel plant's process water requirements allowing its reuse in the plant. This is an illustration of circular economy, saving both freshwater resources and raw water costs.

The benefits of our wastewater treatment services also extend to industrial partners helping to support sustainable economic development. Working with industrial partners, SUEZ is providing services to PetroChina Sichuan to treat the complex wastewater generated from various upstream production facilities. The Sichuan petrochemical WWTP is the first project in China's petrochemical field to combine conventional wastewater treatment with wastewater recycling, brine treatment and

rainwater treatment with a capacity to treat 60,000 m³ of industrial wastewater per day. The WWTP introduced the first brine treatment system into China and delivers services in line with the highest wastewater discharge and recycling standards in the petrochemical industry to protect the environment.

With more than 40 water treatment projects serving over 20 million people in China, we support the government's commitment to continue economic development while strengthening and maintaining ecological integrity.





As urban populations in Asia continue to grow and economies flourish, wastes become more heterogenous and require increasingly complex treatment. Through innovative recycling and recovery solutions, SUEZ provides customised circular waste management services for industrial enterprises in Asia. Our waste-to-energy plants are all installed with flue gas treatment systems and continuous emissions monitoring systems which ensure compliance with regulatory requirements and emission standards that are higher than local regulations.

TRANSFORMING WASTE INTO ENERGY

Hazardous waste from industrial processes requires highly specialised treatment to minimise potential environmental impacts and risks. At the Suzhou Industrial Park, a well-established industrial zone in China, SUEZ is providing hazardous waste and sludge treatment services which take the environment into account. The hazardous waste treatment plant offers treatment services for 23 major categories of hazardous waste. The energy generated during the incineration process will be used for providing steam to adjacent companies. Designed in line with circular economy concepts and an energy recovery management system, the plant turns waste into resources, thereby generating significant energy savings and avoiding 12,000 tonnes of CO₂ emissions every year.

The sludge treatment plant in Suzhou Industrial Park is the first of its kind in Jiangsu and implements a circular and zero discharge model. Under this model, the sludge treatment plant can achieve optimal energy recovery, water savings, material recovery and energy efficiency while converting sludge, by-product of the WWTP, into a resource. The dry sludge is used by the power plant as an alternative fuel that helps avoid the use of 24,000 tonnes of coal, thereby reducing CO₂ emissions. The condensate generated during the sludge drying process is sent back to the power plant as boiler water, saving around 136,000 tonnes of water per year. With this synergistic and circular concept, as well as its energy-saving and environmentally-friendly process design, this sludge treatment and waste-to-energy project received a silver medal for innovation at the United Nations Climate Change Conference in Paris and is considered an excellent solution for effectively mitigating climate change. It is also one of the demonstration projects promoted by the China-France Climate and Green Economy Forum.

ENERGY

As populations grow and consumption increases, cities are generating ever-increasing levels of municipal solid waste. Kaohsiung, the second largest city and the largest international port in Taiwan, experienced an increased demand for domestic and industrial waste treatment. The Kaohsiung Renwu Waste-to-Energy Plant provides municipal waste treatment services and energy from waste while meeting the world's most stringent emission standards. The plant effectively turns 1,350 tonnes of waste every day into a valuable source of 808 MWh of energy whilst reducing greenhouse gas emissions.

In Hong Kong, the waste produced is higher than other advanced cities in Asia on a per capita basis, especially on food waste. On average, the city generates 3,600 tonnes of food waste every day, which accounts for nearly 35% of the total waste volume. Taking on this challenge, we built and is operating the city's first organic resources recovery centre, O-PARK1, with the capacity to treat 73,000 tonnes of food waste annually. To utilise energy recovery in the facility,

we apply biological treatment to convert food waste into methane gas and nutrient-rich compost for landscaping and agro-farming. The methane gas produced is used as renewable energy, designed to provide 14 million kWh of electricity per year, which can power 3,000 households in Hong Kong, and that helps avoid the generation of 25,000 tonnes of carbon emissions per year.

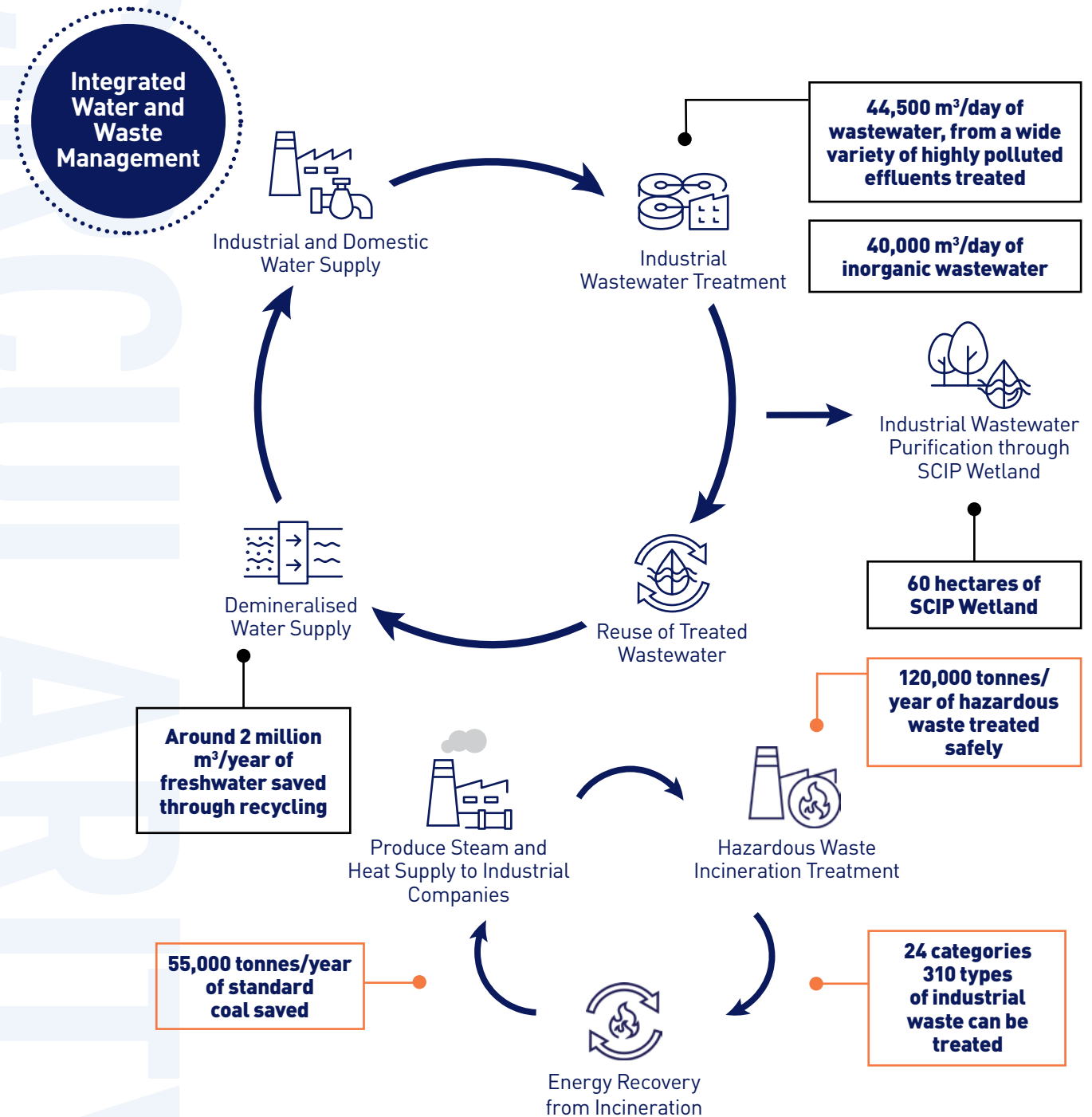
In addition to O-PARK1, we are also managing Hong Kong's North East New Territories ("NENT") and West New Territories ("WENT") landfills. Landfill gas is collected using an active extraction system for on-site electricity power generation, steam generation for leachate treatment and is exported for external use. With this integrated landfill management practice, we provide a source of energy for Hong Kong.



Leveraging Our Expertise to Promote a Circular Economy

Shanghai Chemical Industry Park ("SCIP") is one of the world's largest integrated petrochemical bases and industrial zones for fine chemistry businesses. Such large-scale industrial production will invariably bring challenges to the natural environment due to immense water usage, the generation of wastewater, and hazardous waste. Therefore, maintaining sustainable industrial processes is key to moving towards a circular economy. From water and energy supply to treatment and recovery, we provide innovative water, wastewater and waste management solutions to promote a circular economy.

To further enhance positive ecological impacts for SCIP, we renovated the first phase of a wetland and is currently constructing a new second phase wetland which serves as an ecosystem to naturally purify water, prevent flooding and drought and conserve water. The wetland covers 60 hectares and applied the ecological engineering innovation, Libellule Zone® technology, with coastal salinity-tolerant plants to tackle the high salinity issue of the Park's industrial water and enhance the natural purification performance of the wetlands in treating industrial wastewater. The wetlands increase the richness of local biodiversity and further improved the quality of the treated wastewater, including better chemical oxygen demand, as well as metal, phosphorus and nitrogen levels.



UTILISING OUR EXPERTISE TO PROTECT BIODIVERSITY

Preserving biodiversity is a major commitment in SUEZ Asia's Sustainable Development Targets for 2021. As we provide environmental solutions to our customers, we integrate biodiversity considerations into our services and work to mitigate the ecological impacts of human activities. To further fulfil our obligation to protect biodiversity, we are supporting the Group's commitments to Act4Nature and the CDC Biodiversité Global Biodiversity Score project, as a global assessment tool designed to measure the impact on biodiversity of economic activities across the value chain. The project will be presented at the 15th Conference of the Parties ("COP15") on Convention on Biological Diversity to be held in Kunming, China in 2021, where SUEZ will participate and contribute together with the local partners. By integrating ecological considerations in our environmental solutions and committing to various biodiversity initiatives, we are fulfilling our commitments to protect natural capital.

Chongqing Sponge City

Chongqing has a sensitive and fragile ecosystem due to its unique topography. The mountainous city faces considerable flooding risk as its complex landscape experiences high annual rainfall of over 1,000 mm. For this reason, a conventional underground pipe network may not be sufficient to control discharges of wastewater and rainwater into the natural ecosystem. China has launched the sustainable drainage system programme "Sponge City" to improve urban resilience to flooding risks.

To assess drainage system performance under the "Sponge City" directives, we apply AQUADVANCED®, a digital urban drainage system for Chongqing. AQUADVANCED® Urban Drainage system provides a real-time view of the entire sanitation network and short-term weather forecasts. It is used to monitor, analyse and forecast the operating status of the stormwater drainage system, urban flood risks, influences on natural ecology and the rainwater reuse systems. With this advanced digital stormwater management platform in place, local authorities in Chongqing can adequately protect the urban population against flooding risks and the natural environment against pollution.

45% reduction in wastewater overflow



Dalian Hengli Petrochemical Project

Global warming and industrialisation are posing severe threats to many vulnerable fauna such as marine mammals. Dalian's Spotted Seal National Nature Reserve protects critical habitats and ecological functions for spotted seals, a national second-class protected animal in China and an indicator species for the sensitive marine environment.

SUEZ is conscious of the great significance of maintaining biodiversity while providing integrated solutions to wastewater treatment facilities in the Hengli Petrochemical Industry Park nearby. We introduced the "embedded WWTP" model which ensures all environmental indicators achieve the most stringent standards and effectively

The embedded WWTP concept won the **"Special Climate Prize"** in the Innovation Awards

reduce pollutants. Through these integrated solutions, our responsibility of protecting the spotted seal habitats is fulfilled.



Landfill Restoration in Hong Kong

Restored landfill sites are semi-natural habitats important for improving urban biodiversity. SUEZ has restored seven landfills in Hong Kong back into urban green space and currently manages them. Successful landfill restoration and management advances the ecological diversity and maximises ecological value of urbanised areas.



FOSTERING INNOVATION

Innovation is an important factor in providing smart and sustainable solutions to our clients. We foster innovation through internal initiatives as well as external platforms through partnerships.

Innovation Trophies is an annual event which aims to recognise the most innovative projects and inspire creativity among our employees, business areas and joint ventures ("JVs"). The 2019 Innovation Trophies drew an unprecedented application, with projects covering the full lifecycle of the innovation process. 15 grand prize projects were selected: five from Recycling and Recovery, five from Treatment Infrastructure and five from Water Operations. The diversity of the awarded projects indicates the creativity as well as the enthusiasm of our people.



3 Business Areas
27 JVs
24 Departments
participated in the event



650+
people involved in innovation



150+
innovation projects per year



We also work with partners, universities and research institutes on joint research programmes and participate in external innovation platforms to foster an open innovation ecosystem through partnerships and alliances.

We work with universities and institutes across Greater China on scientific partnership:

Universities/Institutes

- 1 Tsinghua University (School of Environment)
- 2 Harbin Institute of Technology (School of Environment)
- 3 Chinese Academy of Sciences (Research Center of Eco-Environmental Sciences)
- 4 National Cheng Kung University
- 5 Hong Kong University of Science and Technology
- 6 Xi'an University of Architecture and Technology (School of Environment)
- 7 Xi'an University of Technology
- 8 Shanghai University
- 9 East China University of Science and Technology (School of Resources and Environmental Engineering)
- 10 Donghua University (School of Environment)



Open Innovation Ecosystem Through Partnership & Alliance

Joint Research & Open Innovation With Partners, Clients



Aden

Innovation Alliance With External Innovation Platforms



中华人民共和国生态环境部
Ministry of Ecology and Environment of the People's Republic of China



Innovation Awards Garnered in Asia

2018 R&D Prize
Dehydri Ultra

PRIX DE L'INNOVATION
DES ÉQUIPES
FRANCO-CHINOISES

中法团队
合作
创新奖

2018
Embedded Wastewater Treatment Plant Concept



Project
Innovation
Awards



CREATING SHARED VALUE FOR THE SOCIETY

**Together with our
local partners
and stakeholders,
we help shape a
sustainable future.**



Refer to [SUEZ Asia Sustainable Development Targets for 2021](#) for descriptions.

Asia is witnessing a shift in priorities with communities aspiring to a more sustainable and healthier lifestyle. However, rapid urbanisation, ever-increasing demand for resources and greater levels of consumption exert pressures on the region's natural capital. With growing environmental awareness and cumulative experiences of extreme weather events and other natural disasters in Asia, the **rising public expectations** pressure policymakers and the business community to change. The Chinese government has declared a "war on pollution", introducing new regulations, stronger enforcement and policy commitments to improve the quality of the natural environment. In Southeast Asia, governments are focused on improving their water, sanitation and waste infrastructure and management. SUEZ has supported this shift to green growth models through providing the expertise and innovative solutions needed to clean up the environment, improve access to clean water and sanitation, and enable circularity.



15.96 million m³ of water
produced using alternative methods



350,612 tonnes of
secondary raw materials produced



6 partnerships
with socially responsible and
environmental entrepreneurs

SUPPORTING SOCIETY THROUGH PARTNERSHIPS

SUEZ has had a presence in the region for more than 60 years providing solutions which support government development plans to benefit the societies where we operate in. Through our products and services, we contribute to our success while positively impacting all our stakeholders with an aim to maximise sustainable development outcomes that helps create shared value for the societies.

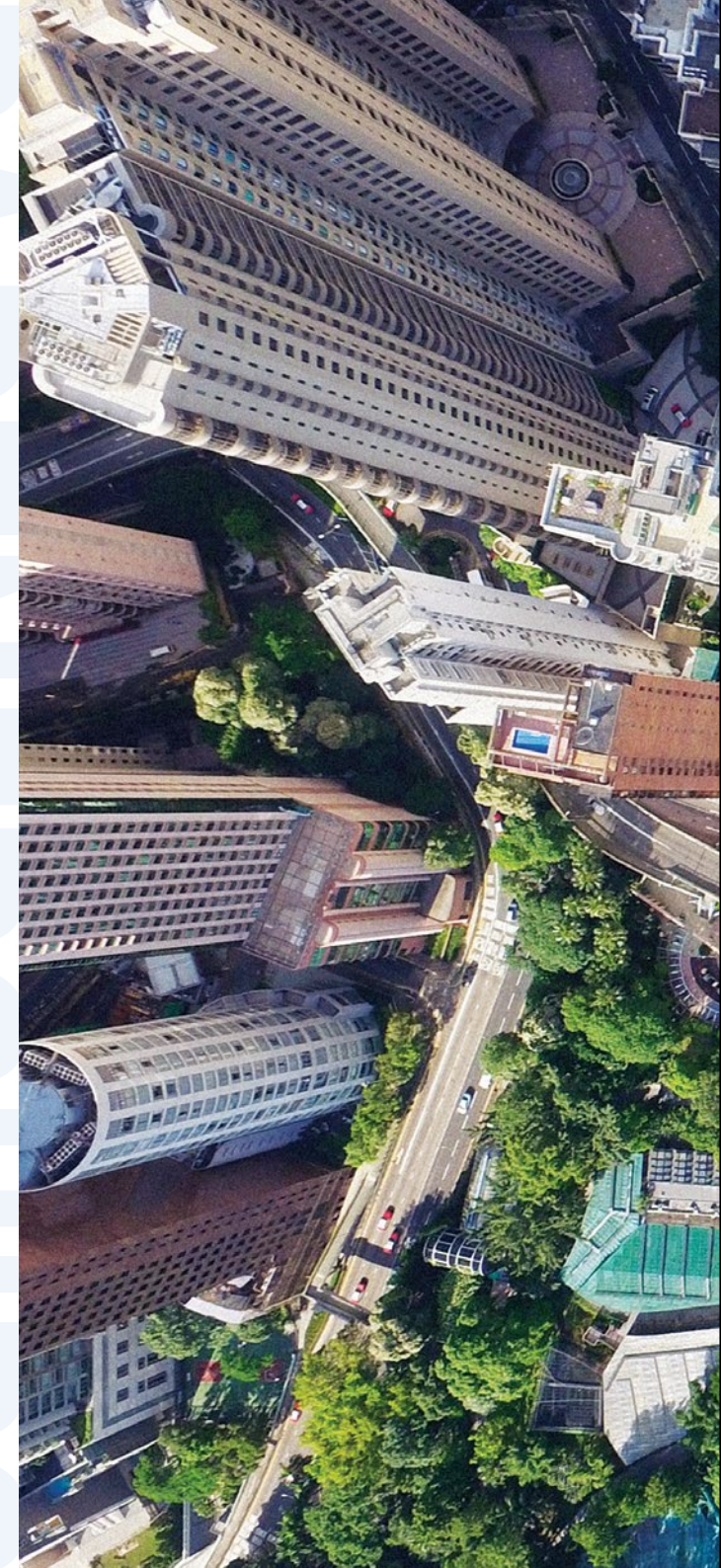
The success of sustainable development depends on collective action and partnerships to deliver a greater impact. Looking beyond our own operations, our value chain supports local businesses and encourages thriving economies across the region. Working with our partners, we transfer knowledge and skills in environmental solutions and embed our sustainable development values as we enhance water quality, conserve natural capital, reduce waste, deploy low carbon solutions and deliver green environments for societies where we have operations.

Helping China Meet Public Expectations to Battle Pollution

China's green development strategy includes a commitment to tackle pollution and a push for coordination between economic and social development and ecological enhancement. SUEZ has deployed our

expertise to help realise this vision through our services. For instance, European emissions standards ensure our facilities do not negatively impact air quality and we take natural capital into account when designing our environmental solutions to help preserve biodiversity.

We have introduced SUEZ's environmental solutions and best practices into China's market to assist the government in meeting the public's expectations for a more sustainable future. Working in agreement with the Solid Waste and Chemicals Center under the Ministry of Ecological Environment, we are leveraging key competencies in hazardous waste disposal and our hazardous waste incineration plants to provide a platform for knowledge exchange. Through this initiative, we will further build the capacity of government officials managing hazardous waste disposal facilities as they clean up and beautify China's environment.



An aerial photograph of a city, likely Shanghai, showing a mix of urban development and green spaces. A large, dense green area with many trees is in the center-left. To its right, there are several tall, modern buildings. A road with cars is visible in the lower-left. The overall scene is a high-angle view of a city landscape.

Supporting Green Development along the Yangtze Economic Belt

SUEZ has been entrusted to support four local governments in the Yangtze River Basin as they address the challenges associated with environmental governance. In the course of these contracts, we work with partners to enhance the ecological environment, restore the aquatic ecosystems of these riverside cities through pollution clean-up and build resilience through circular models such as material recovery and generating energy from waste which reduce greenhouse gas emissions.

River Rehabilitation in Wuhan

In Wuhan, SUEZ is working with partners to rehabilitate two rivers providing our technical expertise on pollution control and deploying membranes technologies at two WWTPs. Using our AQUADVANCED® Urban Drainage solution, we monitor water quality real time, model and anticipate flooding and pollution risks. The outcomes are a restored aquatic ecosystem and a more resilient urban environment.

Waste-to-Energy in Taixing

Through a joint venture in Taixing, we will be financing, building, operating and maintaining a WWTP in the Taixing Economic Development Zone. The sludge generated will be transferred directly to our hazardous waste treatment plant in the park for recovery. The steam produced will be used as clean energy for companies at the park, avoiding 15,000 tonnes of coal consumption annually.

Material Recovery in Shanghai

Using the Thermylis® 2S solution at the Pudong sludge treatment plant, SUEZ maximises the reduction, stabilisation and harmless treatment of wet sludge with an emission performance that exceeds European standards. After treatment, the by-product fly ash can be used as construction material.

Supporting Circularity

China has emphasised circularity as a source of green growth through innovation which benefits the environment and society. At the heart of this commitment is closing industrial loops to maximise the usability of materials and resources by converting outputs from one process into inputs for another part of the value chain. As a leader in the circular economy, SUEZ is supporting the government's objectives, bringing innovative solutions to encourage recycling and resource recovery.



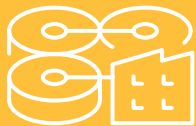
Recycling in Macau

We have been selected for two projects in Macau. One project is to work to improve, operate and maintain the WWTP to help improve treated wastewater quality. The second project is to operate a glass crushing facility where the recycled glass sand is an input into the city's roads.



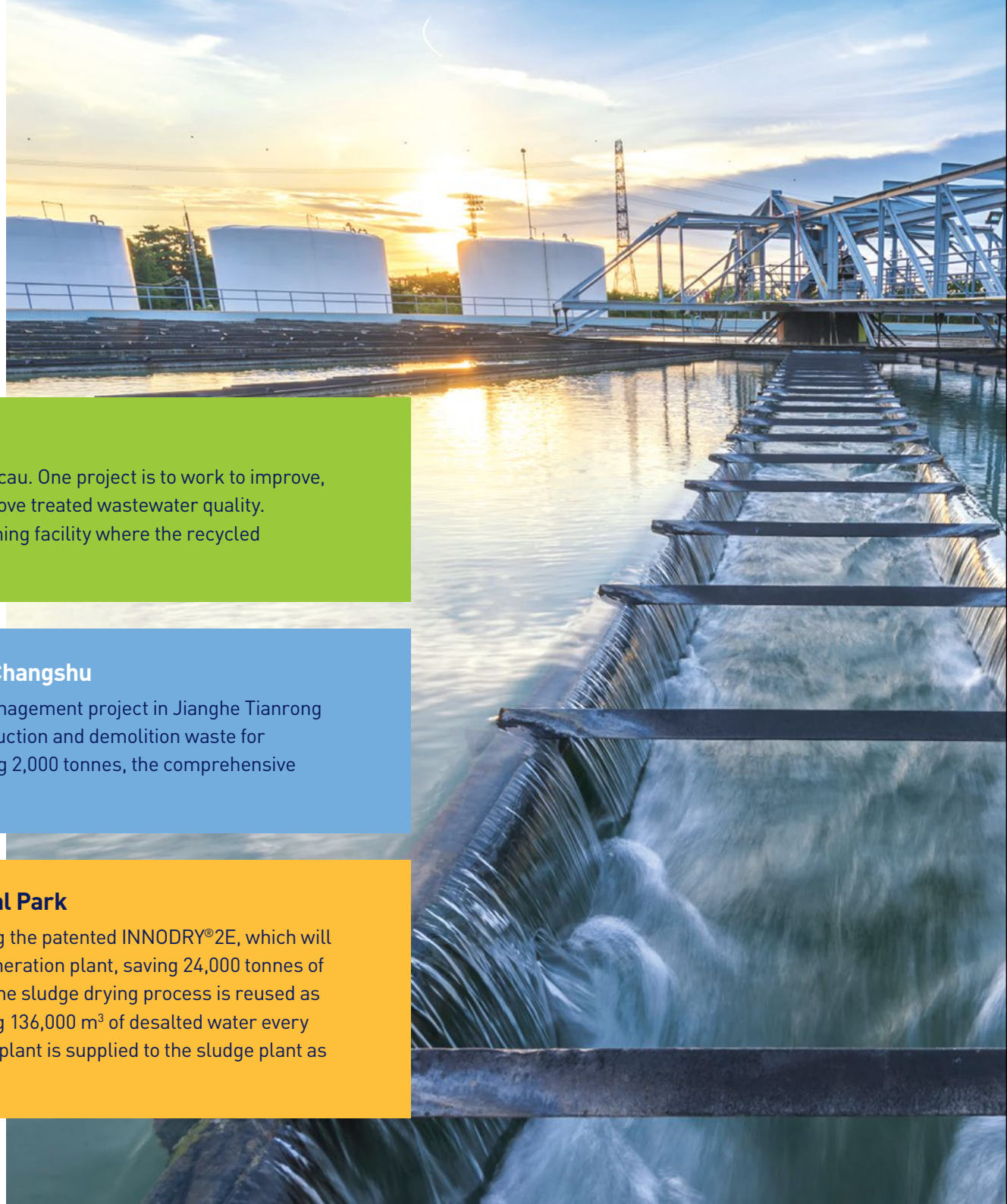
Construction Waste Management in Changshu

Working with our local partner, the waste management project in Jianghe Tianrong manages sorting, crushing and sifting construction and demolition waste for integrated use. With a daily capacity exceeding 2,000 tonnes, the comprehensive utilisation rate is over 70%.



Sludge Treatment in Suzhou Industrial Park

The sludge treatment plant dries sludge using the patented INNODRY®2E, which will then be used as an alternative fuel in a co-generation plant, saving 24,000 tonnes of coal per year. Condensate generated during the sludge drying process is reused as boiler water in the co-generation plant, saving 136,000 m³ of desalted water every year and excess heat from the co-generation plant is supplied to the sludge plant as steam to dry sludge, saving 40% of energy.





Optimising Water Resources across China

As China's urban populations continue to grow, efforts to improve wastewater treatment infrastructure are necessary to meet the increasing demands. Leveraging our experience and expertise in wastewater treatment, SUEZ is working with our partners to enhance water quality in various locations across China.

In Zhuhai, we formed a joint venture to finance, build and operate a WWTP which will operate for 50 years to treat the wastewater generated by the companies at the petrochemical park in the Gaolan Port Economic Zone. The treated wastewater will be of a much higher quality than the output from municipal WWTPs. In the long term, SUEZ plans to adopt a circular model aiming to recycle wastewater for clients in the park.

In Taizhou, the WWTP serves the Taizhou New Energy Industrial Park where the treated wastewater will be of the highest grade according to the local discharge standard.

SUEZ will continue to expand its experience working with partners to contribute to the environmental management of industrial parks across Greater China.



Responding to the Needs of a Growing Population in Southeast Asia

In Southeast Asia, water, sanitation and waste management practices have yet to keep up with rapid population growth. Coupled with the quick pace of development, the region has witnessed health and environmental risks. SUEZ is applying our knowledge and expertise to support the regional governments to improve their drinking water, sanitation and waste management services for the benefit of the growing populations in Asia.



Addressing the Plastic Waste Crisis in Thailand

We are bringing SUEZ's European experience in plastic recycling and the production of circular polymers to Southeast Asia with a plant in Bang Phli District near Bangkok, Thailand. With an annual capacity to convert 30,000 tonnes of plastic waste into high-quality post-consumer recycled plastic, the plant will contribute to Thailand's target to achieve 100% plastic recycling by 2030.



Waste-to-Energy in Chonburi, Thailand

SUEZ is part of an international consortium providing advanced waste-to-energy solutions through Chonburi Clean Energy. The plant is the first industrial waste-to-energy facility in Southeast Asia to meet European emission standards that converts over 400 tonnes of non-hazardous industrial waste into electricity per day.



Enhancing Sanitation in Vi Thanh, Vietnam

SUEZ was awarded a sanitation services contract to help improve the living standards of more than 6,500 residents in Vi Thanh and prevent pollution of the Xang Xa No city canal. The contract includes building a WWTP with a daily capacity to treat 3,000 m³ and a 41 km sewer network connecting 1,400 households.



Access to Drinking Water in Medan, Indonesia

SUEZ helps improve the accessibility of drinking water to households in Medan through the extension of a drinking water production plant. We finance, build and operate two additional water production units. This project will help the local government achieve their goal to supply clean drinking water to more than 84% of the population.

IMPLEMENTING WIN-WIN SUPPLIER RELATIONSHIPS

SUEZ is committed to maximising positive impacts across our value chain. We take steps within our sphere of influence to extend our values beyond our operations to affect change within our supply chain partners. SUEZ Group's purchasing division supports procurement management in Asia. As stated in our Sustainable Purchasing Charter, our supply chain partners are clearly informed of our ethical expectations which include avoiding corruption, child and forced labour and discrimination. They are also expected to maintain a safe and healthy work environment and incorporate environmental considerations throughout product value chains to minimise impact.

As our business grows and develops, we are further able to support the local economy. Our Sustainable Development Targets for 2021 encourage local purchasing and manufacturing, especially from small and medium enterprises. We also seek to partner with socially responsible businesses who employ a diverse workforce including disabled individuals.



>70%
local supply chain
partners



KNOWLEDGE SHARING

Sustainable urban development depends on the adoption of best practices and innovative technologies to tackle intractable challenges. While SUEZ observes best practices and actively develops new technologies and innovative solutions, we must multiply our efforts by sharing our experience and expertise to encourage modernisation and performance improvements across the industry. To this end, we support opportunities for cross-industry knowledge sharing to provide insights on the latest best practices, innovations and technologies. Through these sharing platforms, we aim to influence the industry and governments to adopt more sustainable and circular approaches with a lower impact on the environment and a positive contribution to society.



We ensure the same technologies, quality and standards are achieved in all our operations across different parts of the world.



International Advisory Board of Chengdu Municipal Government

SUEZ joined the Advisory Board in 2016. The Board consists of about 30 internationally known members to discuss major policies, events, and/or projects, and offer solutions, advice or suggestion for policy-making. The Board meeting is held every two years and in 2018, SUEZ presented the suggestions to the Mayor on supporting Chengdu to become a sustainable world city.



The Chongqing Mayor's International Economic Advisory Council

SUEZ joined the Advisory Council for 14 years as the Executive Chairman. The theme of the 2019 meeting was "Building an Inland International Logistics Hub: Global Experiences and Chongqing's Way". Over 30 executives from the top 500 global businesses took part in the meeting.



China Environment Chamber of Commerce (CECC)

CECC was established in 2007, consisting of over 500 members. SUEZ joined CECC as a founding member and is the current Executive Vice President company. CECC seeks solutions and advices for a healthy development, realising the win-win situation for their members, industry, government and society. CECC also proactively involved in Government's legislation process in pursuit of providing constructive recommendations to develop a healthy market.



The Hong Kong Waste Management Association (HKWMA)

HKWMA was inaugurated in 1994 and has been the premier organisation representing professionals in Hong Kong's solid waste management and environmental industries, with the mission to work towards effective waste management for a sustainable society. SUEZ joined HKWMA since its inauguration and sits on their executive committee. We are also an active participant in HKWMA's events to exchange views with industry experts and government officials on waste management.



Agreement with Ministry of Ecological Environment

SUEZ signed a commonwealth agreement with the Solid Waste and Chemicals Center under the Ministry of Ecological Environment. This provides a platform for knowledge exchange and experience sharing on hazardous waste disposal.

NURTURING A SUSTAINABLE WORKFORCE

We enable every employee to rise to the challenges of the present and the future.



Refer to [SUEZ Asia Sustainable Development Targets for 2021](#) for descriptions.

The globe is undergoing significant shifts in demographic profiles which bring along a new set of workforce challenges and opportunities. Some countries in the region are expected to face a decline in population as well as an ageing workforce which results in tighter labour markets and changing needs in the workplace. While the diminishing workforce may pose a challenge to current economic models, it opens up new opportunities to encourage female participation in non-traditional roles and industries, and to adopt technological innovations such as automation. In response to the **demographic shift**, SUEZ is committed to cultivating a sustainable and resilient workforce through our employee pipeline stocked with talented and experienced individuals as well as developing the capabilities of our colleagues.

>99%
locally-hired employees in Asia



88.5%
of employees trained



32%
female employees



NURTURING OUR PEOPLE

We rely heavily on our employees to push forward our Sustainable Development Roadmap and innovate for tomorrow. To attract and retain every talented and skilled individual, we take a people-oriented approach when it comes to human capital development.

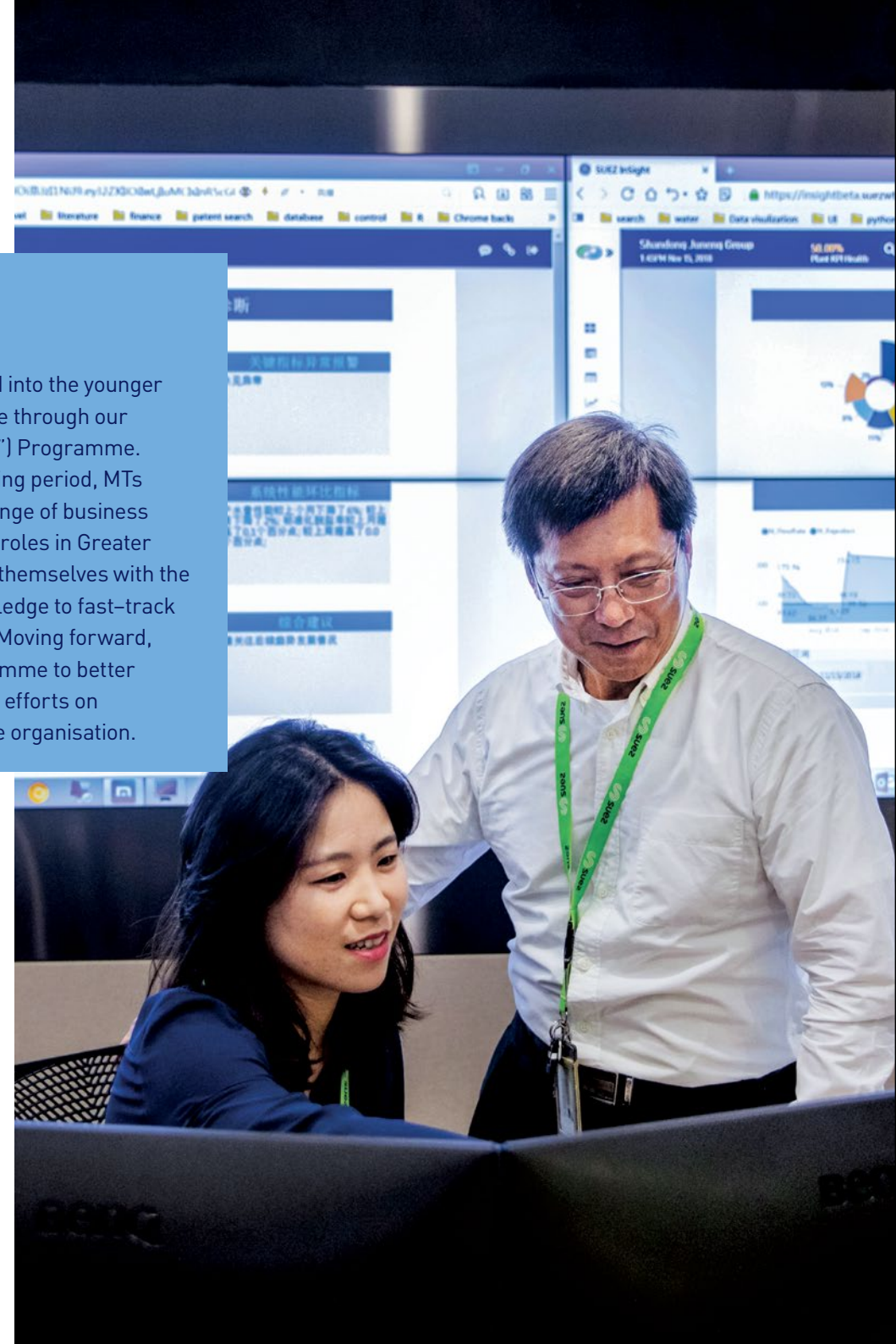
Talent Acquisition and Retention

We have a competitive and fair pay policy based on three principles – Globality, Competitiveness and Equity – to show our commitment to employees. In line with this policy, staff members are rewarded with attractive remuneration packages and a variety of benefits. We also introduced an Employee Referral Policy to incentivise staff to refer suitable new talents to join SUEZ or its subsidiaries in Asia.

To make SUEZ an ideal workplace for employees, we have made enduring efforts to enhance our employment practices over the years. For instance, we have integrated and improved the remuneration and welfare systems where employees from Hong Kong, Macau and Mainland China are provided with a standardised scorecard bonus system and leave entitlements in conjunction with commercial health insurance and physical check-up services.

Management Trainee Programme

Since 2015, we have tapped into the younger generation of the workforce through our Management Trainee ("MT") Programme. During the 24-month training period, MTs rotate through a diverse range of business units and explore different roles in Greater China and beyond to equip themselves with the necessary skills and knowledge to fast-track into managerial positions. Moving forward, we will revamp this programme to better allocate our resources and efforts on emerging talents within the organisation.



PROMOTING EQUAL OPPORTUNITIES

We see diversity as a source of innovation and value creation. As a key component of SUEZ's winning spirit, we place a strong emphasis on mutual respect and are fully committed to building an inclusive workplace which always promotes equal employment opportunities and values respect and diversity.

We ensure a fair recruitment and promotion process based on experience, skills, qualifications and performance regardless of gender, age, race, ethnicity, disability, family status or sexual orientation. In support of our commitment to equal employment opportunities, we implement a disability policy to provide a fair and barrier-free workplace for individuals with special needs.

To support and promote gender equality in the workplace, we make every effort to create a female-friendly work environment. Guided by our diversity policy, we are especially attentive to the gender wage gap and ensure men and women are paid equally for the same work. Our Sustainable Development Targets for 2021 include a goal of 33% of management positions held by women. As part of our commitment to gender diversity, we launched SUEZ Women Asia Network ("SWAN") in May 2018 supplemented by multiple activities and campaigns to foster gender equality and empower our female employees.



36%
of management positions
filled by women



SUEZ joined the United Nation's HeforShe initiative co-organised by The French Chamber of Commerce and Industry in Hong Kong and Hong Kong Exchanges and Clearing Limited to promote women's rights and gender equality.



Ana Giros, Group Senior Executive VP – APAC / AMECA Regions and Industrial Key Accounts, met with SWAN team in Hong Kong with a fruitful exchange.



Macao Water invited female staff to share their experiences on how to strike a balance between work and family. External guests also shared good practices to improve women's social status and rights.



Our subsidiary specialising in urban cleansing and waste collection, recruited female driver to support its waste operations in Macau.

ENGAGING OUR EMPLOYEES

Ongoing and two-way engagement with our staff is vital to building a sustained and motivated team. We connect with our colleagues through multiple channels, including staff surveys, emails, newsletters, annual meetings and different staff activities.

Our business segments arrange meetings annually to bring our staff together and foster a thriving network. In 2019, our business areas including Recycling and Recovery, Water Operations, Treatment Infrastructure, and Smart and Environmental Solutions held their respective annual meetings, for functional departments to understand and support business strategy development while also have fun connecting with colleagues.



We offer our employees with opportunities to exchange with the Group's management team to gain more insights, and also ensure that we provide employees with a friendly and harmonious work environment through a range of staff activities.



Shanghai

Townhall meeting for employees to understand company directions and facilitate exchange



Macau

Bertrand Camus, CEO of SUEZ Group, visited Macao Water and exchanged with our operation team



Macao

Macao Water organised staff activities to raise enthusiasm on physical exercise



Qingdao

Qingdao Sino French Hairun organised a walkathon to promote green living



Taiwan

Taiwan Renwu Recycling and Recovery staff took part in the 2019 Badminton Competition



Hong Kong & Shanghai

Our dragon boat teams took part in several races through which they strengthened team bonding



Changshu

Jiangsu Sino French Water celebrated Children's Day by hosting family-friendly workshops



Shanghai

Ana Giros, Group Senior Executive VP – APAC / AMECA Regions and Industrial Key Accounts, met the local teams in SCIP

EMPLOYEE SURVEY

We understand that open and two-way communications with employees at different levels is essential to building an engaged and stable workforce. SUEZ conducts an employee engagement survey – TELL US every two years to gather staff perception and feedback on how to make SUEZ a more attractive employer. For the first time in 2018, the engagement survey was extended to all business units worldwide.



19,000

comments
worldwide



98%

participation rate
in Asia



DEVELOPING OUR TALENT

Talent development is an essential driver of the Group's business sustainability as we depend on the technical know-how and expertise of our skilled employees to innovate and deliver value to our clients. To ensure business continuity, we place great emphasis on talent development and support experienced leaders to pass on their precious knowledge.



**22.9
hours**

of training on average per
employee

Mentoring Programme

We launched the Mentoring Programme to deepen communication and collaboration between senior leaders and the next generation of our workforce. Through regular one-on-one exchanges, 31 mentors shared their valuable insights and provided useful career advice to 44 mentees in the 2018 – 2019 programme cycle. This programme facilitates a smooth knowledge transition while enabling young professionals to build stronger internal networks.

Leadership Development Training

To enhance leadership and management skills, employees from different business units across Asia participated in the Leadership Development Training programme in July 2019.

Supporting Our Experts Through Their Careers

In May 2019, SUEZ held its first expert training in Shanghai for our professional experts to enhance their technical know-how and introduced them to up-to-date industry trends and best practices.

SUEZ X-Country Learning Expedition

The one-week SUEZ X-country Learning Expedition provides staff with opportunity to gain an in-depth understanding of SUEZ's overseas businesses, upcoming challenges and response strategies, bringing in innovative environmental solutions and technologies applicable to the Asia market.



Our e-learning Platform – iLearn

SUEZ has adopted iLearn, a group-level e-learning platform which allows employees to gain access to extensive learning resources.

MAINTAINING HIGH HEALTH AND SAFETY STANDARDS

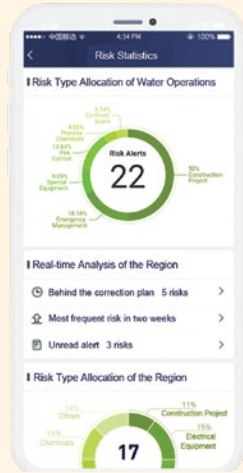
Ensuring the health and safety ("H&S") of our employees is first and foremost our number one task. We have established a comprehensive H&S management system to oversee and manage major risks related to our activities. We also take great care to nurture a vigilant and proactive H&S culture and closely observe industry best practices to uphold high H&S standards.

H&S Management System

Our H&S management system takes into account global H&S standards and practices as well as relevant legislative requirements. It provides an effective and robust mechanism which consists of 15 H&S points covering a series of specific and quantitative managerial and technical standards, and is subject to regular review.



iAlert mobile application facilitating H&S risk reporting and preventive management



We introduced blue lights to the forklift working zone to remind workers on safety distance, thus minimising work-related incidents

We endeavour to share H&S best practices with our employees and business partners in order to create a zero-harm workplace. Here are some selected examples of the day-to-day applications of our programme



We utilised unmanned aerial vehicles for daily inspection to help reduce risks arising from working at height



Cross driving behaviour monitoring programme to reduce risk of collision outside sites



Smart LOTO system using a mobile application to manage permit control process with positioning-enabled bluetooth locks



H&S delegation team conducted site visits to review H&S management systems and ensure appropriate on-site risk control and emergency response

Our H&S management system together with a sound H&S culture lay a solid foundation for mitigating occupational hazards. To ensure our H&S approaches are well implemented, we have organised a number of ongoing initiatives such as managerial safety visits and the Executive H&S Leadership Training while collaborating with our JV partners to initiate a series of H&S programmes.



115,074

training hours on H&S



251

managerial site visits



54

managers took part in the H&S leadership training

2019	Frequency Rate	Severity Rate
Asia Overall	1.82	0.16
Water	0.45	0.02
Waste	4.46	0.42

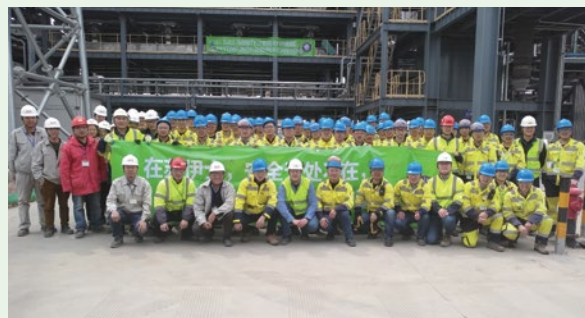
During the SUEZ Safety Month, we joined hands with our JV partners to organise multiple events, workshops and trainings for our staff and contractors:



Our Shanghai office arranged a mini-golf game for staff to refresh their knowledge of SUEZ's 10 Life-Saving Rules



H&S training at our JVs in Sichuan, Chongqing, Xi'an, Yangzhou, Nanchang, Nanjing and Xinchang



Taixing Recycling and Recovery project reaffirmed their commitment towards compliance with relevant safety rules and regulations



Taiwan Renwu Recycling and Recovery project staff participated in H&S activities

SERVING OUR COMMUNITY

We make use of our knowledge, skills, goodwill and resources to serve our community. We are active participants in various social engagement activities to support our community, enhance environmental awareness and preserve the planet's natural capital.



**688
million**

RMB of community investment



Refer to [SUEZ Asia Sustainable Development Targets for 2021](#) for descriptions.

In Asia, SUEZ has long organised various activities and visits to raise awareness and a culture of sustainable living, environmental protection, and marine and water conservation to coincide with World Water Day, Earth Day, World Environment Day and World Oceans Day.

In response to the scarcity of water resources worldwide, we organised activities across the Greater China region to promote water conservation to support to World Water Day.



With the Earth Day 2018 theme being “End Plastic Pollution”, we had the opportunity to focus on the reduction and reuse of plastic, as our joint venture, SCIP Sino French, transported plastic waste to a waste recycling plant for treatment and reuse in Shanghai.



We also organised events including a “Trash to Treasure” handicraft contest in Taiwan where participants learned how to reuse materials, a visit to the Chongqing Nature Museum focused on coexistence with nature and visits to water supply facilities in Macau and Zhuhai where participants took part in organic farming during the World Environment Day and World Oceans Day.



GOODBYE TO PLASTIC WASTE

As a founding member of the Alliance to End Plastic Waste, SUEZ is committed to finding a solution to end plastic waste in the environment with a special focus on our oceans. The Alliance includes members across the plastics value chain who will work together to promote circular solutions to reduce plastic waste through reuse, recovery and recycling. This is a global problem which requires a global solution.



Aside from leveraging our environmental expertise to tackle plastic waste through our services, we also initiated multiple community programmes in the region to encourage plastic reuse and recycling.

Hong Kong

"Goodbye Plastic Waste" Primary School Drawing Competition aimed to draw attention to this imminent plastic crisis. Entries were showcased at the SUEZ booth during Eco Expo Asia 2019.



Asia

We promote the use of environmentally-friendly bags among staff and also motivate others to avoid plastic bags.



Every year, 8 to 12 million tonnes of plastics and microplastics are dumped into the oceans, which bring along severe ecological impacts on the marine ecosystem. To help tackle this challenge, SUEZ introduced #suez4ocean, an initiative to activate and mobilise waste collections around the world.

Taiwan

We collaborated with a local primary school to make Christmas trees out of used plastic bottles to encourage the reuse of plastic.



Thailand

Our teams in Thailand jointly organised a beach clean-up event, attracting 120 participants including staff, partners and clients, and collected more than 400 kg of waste.



To promote the importance of marine environment and water resources conservation, we also launched a series of natural environment clean-up events focused on beaches, lakes and mangroves. More than 150 volunteers from SUEZ cleaned up invasive cordgrass at Ha Pak Nai in Hong Kong, to lower its threat to mangrove species and preserve biodiversity.

We responded actively to World Clean Up Day where more than 530 staff participated and more than 1,330 kg of waste was collected.

Apart from preserving the nature, we also paired up with Soap Cycling, a charitable organisation that aims to improve sanitation and hygiene in underprivileged regions, helping local communities as well as eliminating waste from landfills through recycling lightly used soap collected from hotels.

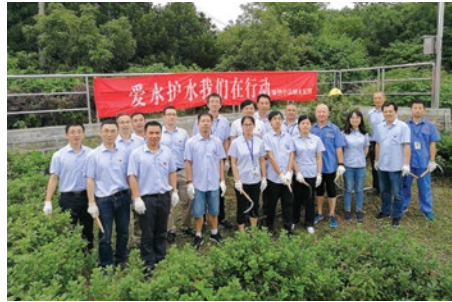


SOLIDARITY TOGETHER

SUEZ initiated and organised various activities among different business units and entities across Asia to raise staff's environmental awareness and support local communities.

Initiatives Raising Environmental Awareness and Supporting the Community

Changshu



Jiangsu Sino French Water took initiative to tidy up the environment around the water reservoir

Qingdao



Qingdao Sino French Hairun gave a workshop on water conservation and preservation to a primary school

Chongqing



CCIP Sino French organised a plant open day to raise public awareness of water conservation

Tianjin



Tianjin Tanggu Sino French organised a visit to water supply project for students to understand the treatment process of the precious water

Suzhou



Suzhou SIP advocated water conservation for the next generation in response to World Water Day

Shanghai



SCIP SITA gave a talk to students at a primary school on environmental protection

Hong Kong



Our employees and their family members paid a visit to an elderly day care centre with an intention to better take care of their mental wellness

Beijing



We took part in the Great Walker Fundraising Trekking Event where participants completed a 50 km race to raise funds for rural school children

Shanghai



SCIP Sino French visited the underprivileged groups in a nearby village and sent them daily necessities and festive greetings

Singapore



Our staff in Singapore donated daily necessities to the Singapore Council of Women's Organisations

Thailand



We supported an event on plastic waste reduction organised by the Thailand Business Council for Sustainable Development

Macao



Macao Water and Macao Special Olympics jointly organised a swimming competition where participants aimed to help special Olympians promote social inclusion

AWARDS AND ACCOLADES

We are honoured to have received the awards and recognitions from the industry and local authorities.

2019



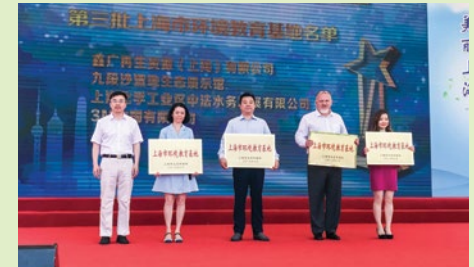
SUEZ is the only foreign company to have been awarded the Top Ten Most Influential Water Companies in China, for 17 consecutive years since the list's inception. Macao Water and Jiangsu Sino French Water also won the most socially responsible corporation award for eight consecutive years, both from the E20 Environment Platform.

2019



SUEZ outperformed 200 other companies to win the Best Employer Award in the "Visible to Talent-2019 Wuxi Corporate Employer Brand Show"

2019



SCIP Sino French was named Shanghai Environmental Education Base by Shanghai Municipal Bureau of Ecology and Environment

2019



Our Taiwan Renwu Recycling and Recovery Plant has won the Green Energy Award from the Taiwan Environmental Bureau for the fourth time, in recognition of its excellent operational and environmental performance

2018



Our Embedded Wastewater Treatment Plant won an international award during the IWA Water Congress

2018



We won the Global Pilot Enterprise on providing integrated water services

2019



Nantong SITA won an environment protection award

2018



Our Taiwan Renwu Recycling and Recovery Plant received the Regional Cooperation Award from the Taiwan Environmental Protection Bureau

PERFORMANCE DATA

Economic Performance	Unit	2017	2018	2019
Direct Economic Value Generated and Distributed				
Revenue (Managed Revenue)	Billion RMB	-	9.458	10.952
Operation cost	Billion RMB	-	3.439	3.873
Employee wages and benefits	Billion RMB	-	0.842	0.972
Payments to providers of capital	Billion RMB	-	0.099	0.2549
Payments to government (Hong Kong tax)	Billion RMB	-	0.032	0.033
Payments to government (China tax)	Billion RMB	-	0.046	0.094
Community investment	Billion RMB	-	0.934	0.688
Economic value retained	Billion RMB	-	4.082	5.071
Monetary Amount of Contribution to The Community¹				
Cash contributions	RMB	-	1,461,231	686,311
Time: employee volunteering during paid working hours	RMB	-	6,242	62,436
In-kind giving: product or services donations, projects/ partnerships or similar	RMB	-	156,919	288,161
Management overheads	RMB	-	-	5,902
Charitable Donations	%	-	87%	35%
Investments in Community Initiatives	%	-	13%	56%
Commercial Initiatives	%	-	0%	9%

¹ The percentage of charitable donations, investments in community initiatives and commercial initiatives are derived from the total amount of cash contributions, time, in-kind giving and management overheads.

Environmental Performance		Unit	2017	2018	2019
Greenhouse Gas Emissions					
Scope 1 emissions	Water Operations	Tonnes of CO ₂ e	2,858	2,882	3,132
	Recycling and Recovery	Tonnes of CO ₂ e	490,721	488,697	472,093
Scope 2 emissions	Water Operations	Tonnes of CO ₂ e	454,955	475,171	494,073
	Recycling and Recovery	Tonnes of CO ₂ e	48,762	58,909	68,504
Total (Scope 1 and 2 emission)	Water Operations	Tonnes of CO ₂ e	457,813	478,053	497,205
	Recycling and Recovery	Tonnes of CO ₂ e	539,482	547,606	540,597
Greenhouses gas emissions (scope 1 and 2 emissions) per tonne of non-hazardous waste treated	Tonnes of CO ₂ e / tonne		0.101	0.096	0.097
Greenhouses gas emissions (scope 1 and 2 emissions) per million m ³ of drinking water distributed ²	Tonnes of CO ₂ e / Mm ³		588	582	593
Greenhouses gas emissions (scope 1 and 2 emissions) per million m ³ of wastewater treated	Tonnes of CO ₂ e / Mm ³		1,308	1,370	1,401
Contribution to avoidance of GHG emissions	Water Operations	Tonnes of CO ₂ e	9,755	8,884	11,475
	Recycling and Recovery	Tonnes of CO ₂ e	555,424	563,367	550,629
Energy					
Renewable energy generation	Water Operations	MWh	36,002	32,351	44,954
	Recycling and Recovery	MWh	1,255,772	1,319,661	1,303,016

² The data is derived from our water supply companies in Changshu, Chongqing, Macau, Sanya, Taizhou, Tanggu and Tanzhou.

Environmental Performance	Unit	2017	2018	2019
Water and Wastewater				
Wastewater treated	Mm ³	350	349	355
Population served by drinking water supply networks	Number	6,121,377	6,420,779	7,041,447
Waste				
Hazardous waste treated	Tonnes	113,382	159,509	210,487
Leachate treated	m ³	2,156,969	2,108,880	2,227,000
Non-hazardous waste incinerated	Tonnes	408,865	387,515	425,303
Non-hazardous waste landfilled	Tonnes	4,836,607	5,101,231	4,930,673
Total number of recorded significant spills	Number	-	0	0
Total volume of recorded significant spills	m ³	-	0	0
Convictions relating to impact caused to the environment	Number	-	1	2
Social Performance	Unit	2017	2018	2019
Workforce Breakdown				
Total Employees	Number	-	8,524	9,043
- Male	Number	-	5,791	6,121
- Female	Number	-	2,733	2,922
- Under 30	Number	-	734	936
- 30 - 50	Number	-	5,885	6,166
- Above 50	Number	-	1,905	1,941

Social Performance	Unit	2017	2018	2019
Employee Turnover				
Total Employee Turnover	Number	-	615	736
Employee New Hires				
Total Employee New Hires	Number	-	981	993
Occupational Injuries and Work-related Fatalities				
Total number of work-related fatalities	Number	-	1	0
Frequency rate	Number	2.69	2.35	1.82
Severity rate	Number	0.22	0.20	0.16
Training and Education				
Total training hour (Non H&S)	Hour	-	156,656	206,955
Total training hours on H&S	Hour	97,875	104,736	115,074
No. of managerial site visits	Number	235	232	251
Confirmed Incidents of Corruption and Actions Taken				
Total number and nature of confirmed incidents of corruption	Number	-	0	0
Total number of confirmed incidents in which employees were dismissed or disciplined for corruption	Number	-	0	0
Total number of confirmed incidents when contracts with business partners were terminated or not renewed due to violations related to corruption	Number	-	0	0
Public legal cases regarding corruption brought against the organisation or its employees during the reporting period and the outcomes of such cases	Number	-	0	0

Appendix I – Certificates Obtained

ISO 9001 Quality Management Systems		ISO 14001 Environmental Management Systems	
Jiangsu Sino French Water Company Limited	The Macao Water Supply Company Limited	Changshu Sino French Industrial Water Company Limited	SUEZ NWS R&R (Hong Kong) Limited North Lantau Transfer Station
Changshu Sino French Industrial Water Company Limited	SUEZ NWS R&R (Hong Kong) Limited Island East Transfer Station	Nanjing Gold State North Wastewater Treatment Company Limited	SUEZ NWS R&R (Hong Kong) Limited West New Territories Landfill
Xinchang Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Island West Transfer Station	Xinchang Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Far East Landfill Technologies Limited
Sanya Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Sha Tin Transfer Station	Chongqing (Changshou) Chemical Industry Park Sino French Water Company Limited	SUEZ NWS R&R (Hong Kong) Limited North West New Territories (NWNT) Landfill Restoration
Zhongshan Tanzhou Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited North Lantau Transfer Station	Chongqing Sino French Tangjiatuo Wastewater Treatment Company Limited	SUEZ NWS R&R (Hong Kong) Limited Tseung Kwan O (TKO) Landfill Restoration
Baoding Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Far East Landfill Technologies Limited	Chongqing Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Pillar Point Valley Landfill (PPVL) Restoration
Nanchang Shuanggang Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited SITA ATAL Joint Venture – Sludge Transportation Service	Baoding Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited SITA ATAL Joint Venture – Sludge Transportation Service
Chongqing (Changshou) Chemical Industry Park Sino French Water Company Limited	O-PARK1	Tianjin Sino French Jieyuan Water Company Limited	O-PARK1
Chongqing Sino French Tangjiatuo Wastewater Treatment Company Limited	Waylung Waste Services Limited	Qingdao Sino French Hairun Water Supply Company Limited	Waylung Waste Services Limited
Chongqing Sino French Water Supply Company Limited	Shanghai Chemical Industry Park SITA Waste Services Company Limited	Tianjin Tanggu Sino French Water Supply Company Limited	Shanghai Chemical Industry Park SITA Waste Services Company Limited
Changtu Sino French Water Supply Company Limited	Everbright SITA Solid Waste Treatment Service (Changzhou) Limited	Suzhou Industrial Park Sino French Environmental Technology Company Limited	SUEZ NWS R&R (Hong Kong) Limited Taiwan Branch
Tianjin Sino French Jieyuan Water Company Limited	Kaohsiung Renwu WTE Incineration Plant	Yangzhou Sino French Environment Company Limited	Companhia de Sistemas de Residuos, Lda (CSR)
Qingdao Sino French Hairun Water Supply Company Limited	Companhia de Sistemas de Residuos, Lda (CSR)	Suzhou Taihu Sino French Environmental Technology Company Limited	Ultra Clean Waste Services Limited
Tianjin Tanggu Sino French Water Supply Company Limited	Ultra Clean Waste Services Limited	Shanghai Chemical Industry Park Sino French Water Development Company Limited	SITA Waste Services (Macau) Limite
Suzhou Industrial Park Sino French Environmental Technology Company Limited	SITA Waste Services (Macau) Limited	The Macao Water Supply Company Limited	
Yangzhou Sino French Environment Company Limited	PT. TIRTA GAJAH MUNGKUR (TGM)	SUEZ NWS R&R (Hong Kong) Limited Island East Transfer Station	
Suzhou Taihu Sino French Environmental Technology Company Limited	Tirta Lyonnaise Medan (TLM)	SUEZ NWS R&R (Hong Kong) Limited Island West Transfer Station	
Shanghai Spark Sino French Water Supply Company Limited	SUEZ Water Treatment Company Limited (TI) China	SUEZ NWS R&R (Hong Kong) Limited West Kowloon Transfer Station	
Shanghai Chemical Industry Park Sino French Water Development Company Limited		SUEZ NWS R&R (Hong Kong) Limited Sha Tin Transfer Station	

OHSAS 18001 Occupational Health & Safety Management Systems		
Jiangsu Sino French Water Company Limited	Yangzhou Sino French Environment Company Limited	SUEZ NWS R&R (Hong Kong) Limited Far East Landfill Technologies Limited
Changshu Sino French Industrial Water Company Limited	Suzhou Taihu Sino French Environmental Technology Company Limited	SUEZ NWS R&R (Hong Kong) Limited North West New Territories (NWNT) Landfill Restoration
Nanjing Gold State North Wastewater Treatment Company Limited	Shanghai Spark Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Tseung Kwan O (TKO) Landfill Restoration
Chongqing (Changshou) Chemical Industry Park Sino French Water Company Limited	Shanghai Chemical Industry Park Sino French Water Development Company Limited	SUEZ NWS R&R (Hong Kong) Limited Pillar Point Valley Landfill (PPVL) Restoration
Chongqing Sino French Tangjiatuo Wastewater Treatment Company Limited	The Macao Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited SITA ATAL Joint Venture – Sludge Transportation Service
Chongqing Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Island East Transfer Station	Waylung Waste Services Limited
Baoding Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited Island West Transfer Station	Shanghai Chemical Industry Park SITA Waste Services Company Limited
Changtu Sino French Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited West Kowloon Transfer Station	SUEZ NWS R&R (Hong Kong) Limited Taiwan Branch
Tianjin Sino French Jieyuan Water Company Limited	SUEZ NWS R&R (Hong Kong) Limited Sha Tin Transfer Station	Companhia de Sistemas de Residuos, Lda (CSR)
Qingdao Sino French Hairun Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited North Lantau Transfer Station	PT. TIRTA GAJAH MUNGKUR (TGM)
Suzhou Industrial Park Sino French Environmental Technology Company Limited	SUEZ NWS R&R (Hong Kong) Limited West New Territories Landfill	Tirta Lyonnaise Medan (TLM)
ISO 45001 Occupational Health and Safety Management Systems		ISO 50001 Energy Management Systems
Ultra Clean Waste Services Limited	SUEZ Water Treatment Company Limited (TI) China	Companhia de Sistemas de Residuos, Lda (CSR)
SITA Waste Services (Macau) Limited		The Macao Water Supply Company Limited
ISO 17025 Laboratory Management Systems		
Jiangsu Sino French Water Company Limited	Zhongshan Tanzhou Water Supply Company Limited	SUEZ NWS R&R (Hong Kong) Limited West New Territories Landfill
Chongqing Sino French Water Supply Company Limited	Qingdao Sino French Hairun Water Supply Company Limited	Shanghai Chemical Industry Park SITA Waste Services Company Limited
Shanghai Chemical Industry Park Sino French Water Development Company Limited	Chongqing (Changshou) Chemical Industry Park Sino French Water Company Limited	ISO 14064-1 Organisation Quantification and Reporting of Greenhouse Gases
Taizhou Golden State Water Company Limited	Chongqing Sino French Tangjiatuo Wastewater Treatment Company Limited	
Sanya Sino French Water Supply Company Limited	The Macao Water Supply Company Limited	Companhia de Sistemas de Residuos, Lda (CSR)

Appendix II – Content Index for Reporting Guidelines

GRI STANDARDS DISCLOSURE

HKEx ESG REPORTING GUIDE

SECTION REFERENCE / REMARKS

General Disclosures			
GRI 102: General Disclosures			
Organisational Profile			
102-1	Name of the organisation		About This Report
102-2	Activities, brands, products, and services		About SUEZ Asia
102-4	Location of operation		About SUEZ Asia
102-5	Ownership and legal form		About SUEZ Asia
102-6	Markets served		About SUEZ Asia
102-7	Scale of the organization		About SUEZ Asia
102-8	Information on employees and other workers	KPI B1.1	About SUEZ Asia Nurturing a Sustainable Workforce
Strategy			
102-14	Statement from senior decision-maker		Message from the Chief Executive Officer Message from the Chief Communications and Sustainability Officer
102-15	Key impacts, risks and opportunities		About SUEZ Asia Our Sustainability Commitments
Ethics and Integrity			
102-16	Values, principles, standards, and norms of behaviour		About SUEZ Asia Our Sustainability Commitments
102-17	Mechanisms for advice and concerns about ethics	KPI B7.2	Our Sustainability Commitments
Governance			
102-18	Governance structure		Our Sustainability Commitments
102-21	Consulting stakeholders on economic, environmental and social topics		Our Sustainability Commitments
102-26	Role of highest governance body in setting purpose, values, and strategy		Our Sustainability Commitments
Stakeholder Engagement			
102-40	List of stakeholder groups		Our Sustainability Commitments
102-43	Approach to stakeholder engagement	KPI B6.2	Our Sustainability Commitments
102-44	Key topics and concerns raised	KPI B6.2	Our Sustainability Commitments

General Disclosures			
Reporting Practice			
102-46	Defining report content and topic boundaries		About This Report About SUEZ Asia Our Sustainability Commitments
102-47	List of material topics		Our Sustainability Commitments
102-50	Reporting period		About This Report
102-53	Contact point for questions regarding the report		About This Report
102-55	GRI content index		Appendix II
Topic-specific Disclosures			
GRI 201: Direct Economic Value Generated and Distributed			
103	Management approach		About SUEZ Asia
201-1	Direct economic value generated and distributed	KPI B8.1	About SUEZ Asia Performance Data
GRI 203: Indirect Economic Impacts			
103	Management approach		Creating Shared Value for the Society Serving Our Community
203-1	Infrastructure investments and services supported	KPI B8.1	Creating Shared Value for the Society Serving Our Community
203-2	Significant indirect economic impacts		Creating Shared Value for the Society Serving Our Community
GRI 205: Anti-Corruption			
103	Management approach	Aspect B7: General Disclosure KPI B7.2	Our Sustainability Commitments
205-3	Confirmed incidents of corruption and actions taken	Aspect B7: General Disclosure KPI B7.1	Performance Data
GRI 302: Energy			
302-1	Energy consumption within the organisation	KPI A2.1	Performance Data
302-3	Energy intensity	KPI A2.1	Performance Data
GRI 303: Water and Effluents (2018)			
103	Management approach	Aspect A2: General Disclosure KPI A2.4 Aspect A3: General Disclosure KPI A3.1	Shaping a Sustainable Environment
303-1	Interactions with water as a shared resource		Shaping a Sustainable Environment

Topic-specific Disclosures			
GRI 305: Emissions			
103	Management approach	Aspect A1: General Disclosure KPI A1.5 Aspect A3: General Disclosure KPI A3.1	Shaping a Sustainable Environment
305-1	Direct (Scope 1) GHG emissions	KPI A1.1 KPI A1.2	Performance Data
305-2	Indirect (Scope 2) GHG emissions	KPI A1.1 KPI A1.2	Performance Data
305-4	GHG emissions intensity	KPI A1.2	Performance Data
305-5	Reduction of GHG emissions	KPI A1.5	Shaping a Sustainable Environment Performance Data
GRI 306: Effluents and Waste			
103	Management approach	Aspect A1: General Disclosure KPI A1.6 Aspect A3: General Disclosure KPI A3.1	Shaping a Sustainable Environment
306-2	Waste by type and disposal method	KPI A1.3 KPI A1.4 KPI A1.6	Performance Data
306-3	Significant spills	KPI A3.1	Performance Data
GRI 307: Environmental Compliance			
103	Management approach		Our Sustainability Commitments Shaping a Sustainable Environment
307-1	Non-compliance with environmental laws and regulations	Aspect A1: General Disclosure	Performance Data
GRI 401: Employment			
103	Management approach	Aspect B1: General Disclosure	Nurturing a Sustainable Workforce
401-1	New employee hires and employee turnover	KPI B1.2 KPI B3.2	Performance Data
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees		Nurturing a Sustainable Workforce
401-3	Parental leave		Performance Data

Topic-specific Disclosures			
GRI 403: Occupational Health and Safety			
103	Management approach	Aspect B2: General Disclosure KPI B2.3	Nurturing a Sustainable Workforce
403-2	Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities	KPI B2.1 KPI B2.2	Nurturing a Sustainable Workforce Performance Data
GRI 404: Training and Education			
103	Management approach	Aspect B3: General Disclosure	Nurturing a Sustainable Workforce
404-1	Average hours of training per year per employee		Nurturing a Sustainable Workforce Performance Data
404-2	Programs for upgrading employee skills and transition assistance programs	Aspect B3: General Disclosure	Nurturing a Sustainable Workforce
GRI 405: Diversity and Equal Opportunity			
103	Management approach	Aspect B1: General Disclosure	Nurturing a Sustainable Workforce
405-1	Diversity of governance bodies and employees	KPI B1.1	Nurturing a Sustainable Workforce Performance Data
GRI 413: Local Communities			
103	Management approach	Aspect B8: General Disclosure	Creating Shared Value for the Society Serving Our Community
413-1	Operations with local community engagement, impact assessments, and development programs		Creating Shared Value for the Society Serving Our Community
GRI 416: Customer Health and Safety			
103	Management approach	Aspect B6: General Disclosure	Creating Shared Value for the Society
GRI 417: Marketing and Labelling			
417-2	Incidents of non-compliance concerning product and service information and Labelling	Aspect B6: General Disclosure	No non-compliances were recorded during the reporting period.
417-3	Incidents of non-compliance concerning marketing communications	Aspect B6: General Disclosure	No non-compliances were recorded during the reporting period.
GRI 419: Socioeconomic Compliance			
103	Management approach		Nurturing a Sustainable Workforce Creating Shared Value for the Society Serving Our Community Our Sustainability Commitments

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

SUEZ Asia

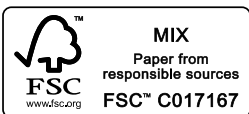
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