

### **CHAIRMAN & CEO MESSAGE**















In these unprecedented times solidarity is essential to urgently transform our relationship with nature. Here at WWF we care for our world and we know you do too. We would like to thank each of you for your ongoing support. Together we can care for each other as our thoughts are with friends and family and living simpler, more sustainable lives.

A survey carried out in March showed that 94% of Hong Kongers support the closure of wildlife markets. Our wildlife conservation team is currently working to identify a list of high-risk markets across Asia, including those known to sell species that harbour diseases that have jumped to human populations.

Across the Pearl River Delta, our oceans conservation team is working to implement an emergency action plan for Chinese white dolphins. On the opposite page you can see the key dolphin zones that have been proposed to mitigate human threats on dolphins and give the population a chance to stabilize and recover. We continue our work to transform Hong Kong into Asia's

most sustainable city by returning our oceans to good health, transitioning towards zero carbon, minimising the space we use, eliminating waste, and reimagining success for Hong Kong to become a sustainable city.

Our visitor centres across Hong Kong remain at the frontline of our work to engage our supporters. From the rich underwater life of Hoi Ha, to the wetland wonders of Mai Po, and the cultural heritage of Island House, we have a range of eco-visits and nature adventures for visitors of all ages. Our centres are evolving with enhanced exhibition and interactive learning areas to cater for students, members of the public and citizen scientists. We look forward to welcoming you to our centres sometime soon.

together possible.



Edward M. Ho Chairman, Executive Council of WWF-Hong Kong



Peter Cornthwaite Chief Executive Officer, WWF-Hong Kong

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#### ABOUT LIFE

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over : @ Richard Ro

Editorial : Jon Wong, Saul Symonds

Translation : Jon Wong, Winnie Ng

: WWF-Hong Kong

Contributor : Jon Wong, Thomas Gommersall

2000 CO

esign : Metti Siu

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June 2020 / :



## **OUR PLANET: OUR BUSINESS**



This year we are calling on Hong Kong's business leaders to work with us to reimagine success and set a new course for our planet. New Deal for Nature and People aims to protect and restore nature by 2030, safeguarding at least 30% of natural spaces and sustainably managing the rest. The message at the core of Our Planet: Our Business engagement work is that biodiversity loss is as grave a threat to the future of our planet as the looming climate

Business as usual is no longer possible. Our economic development is driving a phenomenal increase in the demand for energy, land and water that is fundamentally changing the Earth's operating system. Nature, underpinned by biodiversity, provides a wealth of services which form the building blocks of modern society. We are losing biodiversity as a rate seen only during mass extinctions.

So what can businesses do? WWF has identified five key goals that businesses can strive

- · Adopting clean, renewable technologies to achieve zero carbon emissions;
- · Looking at land management to minimize the space we use;
- · Returning our oceans to good health with sustainable fishing and protection of threatened
- Eliminating waste as much as possible by transitioning towards a circular economy, and;
- Fundamentally rethinking the way we define business success.

Later this year world leaders will review our progress on Sustainable Development Goals, the Paris Agreement and the Convention on Biological Diversity. Business as usual is no longer an option. With the aid of environmental finance, clean energy, green buildings and a more sustainable approach to food and other commodities, we can work with city's business leaders to realise our vision of transforming Hong Kong into Asia's most sustainable city.

28Mar2020 — 20:30

地球一小時 **EARTHHOUR.HK** 

> 多謝支持 地球一小時2020

### THANK YOU FOR SUPPORTING EARTH HOUR 2020



















### **BE OUR GUEST**



"Mai Po brings together groups to tackle the threats to biodiversity and learn about the issues surrounding the protection of Deep Bay wetlands and the East Asian-Australasian Flyway. With the arrival of summer, we launch our Night Safari,

allowing visitors to catch a glimpse of the reserve's nocturnal inhabitants; and *Gei Wai* Harvesting, providing insight into 'wise use' of wetlands."

#### Ricky Cheng

Centre Manager, Mai Po WWF-Hong Kong



"Come to our Island House, a historical monument, and be a part of our upcoming community festival in June. Join an eco-garden workshop, visit the gardens with our children's learning and activity area, and learn more about sustainable eco living and the

local biodiversity of Ting Kok and Tolo Harbour."

#### Matthew Wu

Assistant Centre Manager, Island House WWF-Hong Kong



"At our oceans sustainability centre at Hoi Ha Wan you can learn about the pressing environmental issues threatening our seas, such as marine litter and microplastics, or discover the hidden world of plankton. Our glass-bottomed boat provides an up-close look

at the city's rich at the area's biodiversity, featuring more than 60 coral species and 120 species of fish."

#### Pia Ricca

Centre Coordinator, Hoi Ha Wan WWF-Hong Kong



"The Long Ping visitor centre, near Long Ping MTR exit B2, serves as a meeting point for visitors that have booked a tour to Mai Po and are using our shuttle bus service to and from the reserve. At Long Ping you can also discover green living tips and check out a selection of our best eco products."

#### **Gordon Mackenzie**

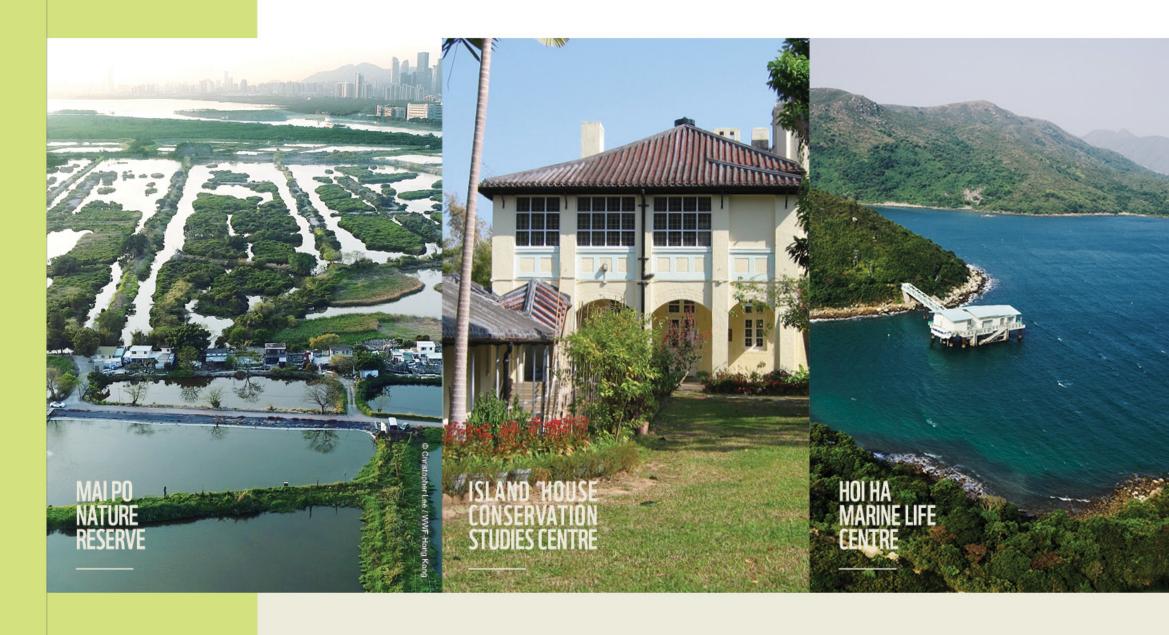
Operations Manager WWF-Hong Kong



selection of sustainable living products designed to help everyone change the way they eat, live, play, read and dress."

#### Carvina Tsang

Senior Visitor Experience Officer, Central Sustainability Hub WWF-Hong Kong



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WHAT CAN WE LEARN FROM THE CORONAVIRUS OUTBREAK?

The Coronavirus outbreak has highlighted the grave threat posed by the eating of wild meat and the wildlife trade to

humans. If we do not stop poaching and do not stop the

wildlife trade now, nature will fight back.

Economists predicted that the Coronavirus outbreak will lead to an economic loss many times higher than the 2003 SARS outbreak. Mitigation measures, which include clos-

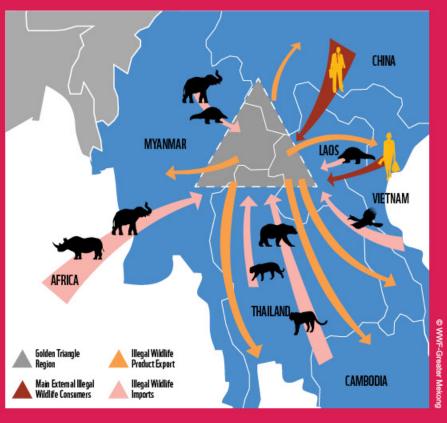
ing legal and illegal wildlife markets, can save billions of

### The Golden Triangle: Ground Zero for Wildlife Trade

Scientists believe that COVID-19 was transmitted to humans from wildlife, most likely through some interaction at a wildlife market. Historically, global pandemics have originated when diseases jump from animals to people. Nearly 75% of all new, emerging, or re-emerging diseases affecting humans at the beginning of 21st century have originated in animals, including SARS and MERS.

As COVID-19 went viral, China's top legislature, the National People's Congress, decided to ban the eating of wild animals and crack down on the illegal wildlife trade on 24 February. While this is a critical step to end the illegal wildlife trade and reduce the risk of future zoonotic pandemics, action in one country is simply not enough. Countries in Southeast Asia, where wildlife trade and eating of bushmeat are prevalent, should follow suit to safeguard people's lives and health. Meanwhile, Hong Kong has a unique position to combat illegal wildlife trade by disrupting the smuggling routes and financial networks.

In the heart of mainland Southeast Asia lies the "Golden Triangle" region where Thailand, Myanmar, China and Laos meet. This "Golden Triangle", along with the surrounding Greater Mekong, is a source, transit route and destination for many of the world's most valuable and threatened wildlife species. Here, casino-resorts, hotels, markets and restaurants openly trade animals as exotic pets, selling jewels and ornaments made from endangered animal parts such as ivory and rhino horn. Even in remotes areas, wildlife products can be bought, and animals served as delicacies in restaurants.





wildlife species and products has accelerated. This is further aggravated by (AML) law to prosecute buyers and syndicates in the wider criminal network. inadequate laws in the region, poor regulation of markets and retail outlets, as Moreover, the government should significantly elevate resources to enhance well as the proliferation of wildlife cybercrime.

Some figures can show how persistent the problem has been. A report published by TRAFFIC this February, Southeast Asia: At the heart of wildlife trade, analyzed thousands of successful seizures in Southeast Asia in recent decades. The study identified the most traded groups of terrestrial animals and found that more than 960,000kg of pangolin scales were seized in Malaysia, Singapore The coronavirus outbreak is and Vietnam from 2017 to 2019, estimated to be taken from over 200,000 a wake-up call that it's time slaughtered pangolins. Huge amounts of ivory, pig-nosed turtles and songbirds to permanently end the sale were also seized among other animals. While these numbers are remarkably of wildlife, especially in open high, they comprised only seizures and are the tip of the iceberg. It also highlights markets. Climate change, the magnitude of illegal wildlife trade in Southeast Asia, which is supported encroachment on wildlife by organized criminal networks and aggravated by pervasive corruption and sanctuaries, unsustainable ineffective laws.

Unregulated wildlife trade not only endangers wildlife populations but threatens the health of human and domestic animals due to a lack of veterinary controls. Many animals such as bats and civets carry a range of pathogens, which have the potential to mutate and infect humans by jumping the species barrier in places where humans have close contact with infected animals. Wildlife markets are fertile environments for this kind of mutation and infection. Movements of infected people, aided by rapidly growing transportation and tourism activities, can turn local outbreaks into pandemics.

Hong Kong should play a crucial role in combating illegal wildlife trafficking. Due to its proximity to mainland China and a free-trade policy, the city has become a global hub for illegal wildlife trade, with 2019 a year of record seizures. Though an unfortunate accolade, it gives Hong Kong a strategic position to disrupt the transportation routes and financial hub of the trade. The government

As people in Greater Mekong and China become wealthier, the demand for should work with financial institutions and invoke the Anti-Money Laundering law enforcement, prosecution and investigations. Specifically, resources and funds should be allocated to improve intelligence exchange, invest in forensics evidence gathering technologies to identify endangered species efficiently, and to operationalize the Inter-departmental Task Force on Wildlife Crime through inter-agency joint operations.

> consumption of bush meat and the wildlife trade, both legal and illegal, all contribute to pandemics. It's time to strike a new deal for people



### **TRADITIONAL CHINESE MEDICINE**

The illegal and unsustainable wildlife trade for Traditional Chinese Medicine (TCM) is also an issue of concern, leading to the ongoing depletion of a variety of animals and plants, including wild ginseng, pangolin, tigers, rhinoceros, musk deer, and saiga antelope.

Some of the trade in these and other wild species is legal, but poaching persists and is a major threat to many medicinal plant and animal species. A precautionary approach is needed to ensure that appropriate safeguards are put in place and enforced so that these species can sustain populations throughout their range and maintain their key ecological roles.

WWF urges the government to take a precautionary approach to impacts on wild species, introduce best practices for TCM sourcing, and carry out research on substitution ingredients for those deriving from threatened species.

To further reduce demand for the use of threatened species, any species listed under the Protection of Endangered Species of Animals and Plants Ordinance should not be eligible for medical insurance reimbursement. TCM students and practitioners should take the IUCN Red List of Threatened Species into account, and prescribe TCM derived only from non-threatened species and sustainable sources.

The government must act now to stop the illegal trade in wildlife and wildlife parts for use in TCM that is cause major declines in species populations in the wild.





## SUSTAINABLE SHUI HAU

The ECF Sustainable Shui Hau project aims to preserve the high ecological value of the area, to lower the human disturbance from ecotourism, and to encourage the long-term sustainable use of coastal resources.

The Shui Hau mudflats are one of the few remaining habitats in Hong Kong for the endangered horseshoe crab, and is an important spawning and nursey ground. Their numbers are decreasing and more protection is needed to help them cope with increasing threats.

In 2018-2019, a total of 19 surveys with 450 citizen scientists were conducted, covering transect and walk-through surveys, as well as public questionnaires. The transect surveys recorded the species, population and size of clams up to 15cm deep in the mud. Walk-through surveys recorded the size and location of sighted horseshoe crabs. And the questionnaires collected data on patterns of clamming behaviour.

### **Results of ecological surveys**

#### Common clam species in Shui Hau



Japanese Artemis

(Dosinorbis japonica)

False-cockles Hard (Anomalocardia flexuosa) (Mer

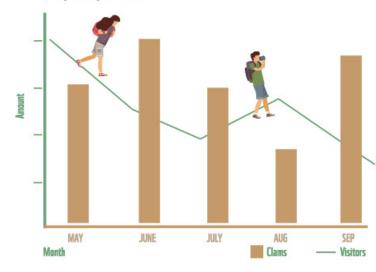


Venus shells (Cyclina sinensis)



False-cockles (Anomalodiscus squamosus)

### Average numbers of clams and visitors in Shui Hau (May to September)



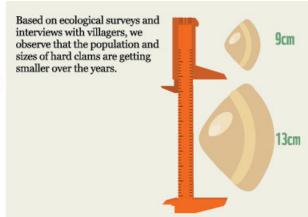
- Clamming activities are common in summer. Survey results showed that when the number of visitors increases, the number of clams declines.
- May had the highest number of visitors, an average of 120 people per weekend day. The number of clams in Shui Hau declined after June and recovered in September after summer holidays.

### Change in Clam Community

### Clam density is approximately 31 clams/sq. metre. For every 30 false cockles found, only 1 hard clam was found.



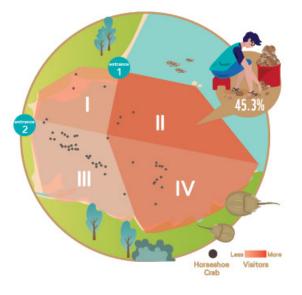
### False cockles : Hard Clam



The largest hard clams kept by villager vs the largest shell found during the ecological survey.

# Horseshoe crab distribution vs intensive clamming zone

Integrating findings from the ecological survey and clam digger questionnaires, helps us to understand where there is an overlap between the range for horseshoe crabs and intensive clamming zone.



Horseshoe crabs are mainly distributed in region III and IV while clam digging activities are mainly located in region II (45.3%). These distributions reveal that hotspot for clam digging and active region of horseshoe crab slightly overlapped.

Access points to the Shui Hau sandflats are located in region I and III. When visitors pass by the active area for horseshoe crabs in region III, although only there for a short period of time, there is still disturbance to horseshoe crabs.

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### MICROPLASTIC FIGHTERS

Microplastics smaller than 5mm in length can be found in all parts of the world's oceans, posing a persistent threat to marine wildlife and human health. Science workshops and citizen science activities, sponsored by ECF and ECC, were launched for students across Hong Kong, to raise awareness of this issue. Activities took place at our Hoi Ha Wan oceans sustainability centre, on campus and in the community.





"Microplastics are a grave threat. Plastic doesn't decompose, break down or disappear. It was designed not to. In the ocean, it breaks up into smaller and smaller pieces. It contaminates the air we breathe, the food we eat, and the water we drink. An average person could ingest five grams of plastic every week – the equivalent of a credit card. The ECF programme integrates STEM into an environmental context, teaching students to be citizen scientists by asking them to look for

microplastics in daily personal care products, as well as conducting microplastics surveys in their own communities. In this way, they discover the environmental impact of small daily actions and learn how to break the cycle."

#### Tom Chan

Senior Learning Officer, Public Visits Hoi Ha Wan WWF-Hong Kong



"I learned a lot about the marine litter problem in Hong Kong, and how microplastics damage our marine biodiversity. Plastic waste has caused severe harm to marine life and if the situation continues, we will be the ones to suffer. Using microscopes to observe insoluble substances in seawater samples was an eye-opening experience, and allowed me to see for myself how many pollutants are in Hong Kong waters. After this programme, I changed my daily habits and avoided products with microplastics. If

everyone does the same, we can tackle the issue at its root."

#### Lam Chun Yeung

Form 4 Student Kwun Tong Maryknoll College



"Microplastics is a global issue that affects our health, and that of future generations. In this E-STEM programme, students had the opportunity to investigate microplastics in Hong Kong waters. They gained experience as citizen scientists, and were able to share their findings and experience with peers and experts. The microplastics issue is an eye-opener for the students. I plan to take them on other WWF education programmes at Mai Po and Island house for more constructive learning. They

are so excited when they can learn something new outdoors!"

#### Wong Sze Ho

Biology teacher Kwun Tong Maryknoll College



"The scientific experiments we conducted, such as testing seawater visibility and salinity, were very interesting. During the programme, I went to Hung Hom pier to collect seawater data, and discovered just how bad our water pollution is. In addition to microplastics, I can also see plastic bags and litter floating everywhere. I learned that there are different kinds of microplastics in our oceans, such as fibres, pellets, and irregular fragments. I will change my daily habits from now on, following the

"4R" principle: Reduce, Reuse, Recover, and Recycle."

#### Wong King Ho

Form 4 Student Kwun Tong Maryknoll College

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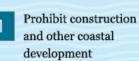
The Pearl River Delta is home to what is likely the world's largest population of Chinese white dolphin (Sousa chinensis), but it is also one of the world's most densely populated and industrialized coastal regions.

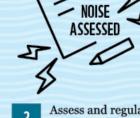
The delta's dolphin population, comprising approximately 2,000 individuals, is declining at about 3% annually under severe human disturbance. Alarmingly, local dolphin abundance in Hong Kong has dropped by over 80% in the past 15 years. Scientific research suggests that, on the current trajectory, the population will go locally extinct unless we act quickly.

The trajectory of loss is dire and immediate action is needed to secure a future for Chinese white dolphins. A group of concerned dolphin specialists in the delta, including government representatives, academics and conservationists, has therefore recommended an emergency action plan that gives the best chance to save the dolphins.

A set of core and buffer areas covering key dolphin habitats has been proposed (see inside front cover) with six key management practices to mitigate human threats to dolphins.







Assess and regulate underwater noise



VESSEL OPERATIONS

3 Strictly regulate vessel numbers, speeds and



DROP of in Hong Kong waters in the past 15 years



Strengthen patrol and enforcement mechanisms



### REJECT RECLAMATION

Hong Kong's Chinese white dolphins face pressure from marine infrastructure projects and coastal development. Facing pervasive human-driven threats, dolphin numbers in local waters have plummeted over 80% in the past 15 years with the lowest number of calves spotted in 2018/19 since 2003, implying an ongoing decline in reproduction.

Waters off Lung Kwu Tan are one of the few remaining Chinese white dolphin habitats in Hong Kong. The proposed reclamation area is close to the Sha Chau and Lung Kwu Chau Marine Park, which is designated for dolphin conservation. The proposed reclamation will disturb key dolphin habitat in the marine park, and reduce food supply for dolphins. As there will be more construction vessels operating along the major Urmston Road shipping lane - which is already frequented by seagoing vessels, river trade vessels and high-speed ferries - proposed reclamation works will increase the risk of ship strikes and underwater noise pollution.

The proposal underscores the government's lack of a planning mechanism to provide strategic direction for utilising marine resources. WWF urges the government to immediately implement a planning exercise for proper usage of our sea, in line with the processes occurring in the rest of the Greater Bay Area. This should involve a three-year baseline assessment of coastal and marine environments to better define areas that need conservation protection and those appropriate for development use.

Our sea should be carefully managed to conserve biodiversity and protect fisheries. WWF objects to reclamation projects in Hong Kong waters. Putting rocks in the ocean is not a good way to treat out planet.



# ENRICH PEOPLE'S LIVES ENRICH YOUR LIVES 點滴奉獻 豐富人生

Founded in 1895, Jebsen is a privately-held marketing, distribution and investment organisation established in Greater China. It partners with leading brand companies to bring a wide array of quality products to Greater China while driving success for its people and business partners, protecting the environment and serving the communities in which it operates.

With clear vision and commitment to corporate social responsibility (CSR), Jebsen is determined to integrate economic, social and environmental considerations into organisational strategies and operations. The Group's main goals are to distribute quality products and services to customers, sustain business growth, and improve the environment and well-being of the local communities. Our people are Jebsen's most important assets, hence special care is placed on employees' ethical behaviour, values and quality of life. The Group believes CSR is an imperative and win-win solution for sustainable growth, in addition to contributing to environmental and social quality.

創立於1895年,捷成為一家深耕大中華地區,專注市場營銷、分銷及投資的集團企業。集團與許多領先品牌合作,致力為大中華地區帶來多樣化的優質產品與服務,協助合作夥伴以及員工取得成功,同時注重環境保護,回饋捷成業務營運所在的社區。

在明確的目標和承諾下,捷成決心通過企業社會責任(CSR)計劃,將經濟、社會和環境考量納入組織的戰略和運作中。集團的主要目標是提供優質的產品和服務給客戶,保持業務的增長,以及改善環境和社區的福祉。 人力是捷成最重要的資產,因此集團特別關注員工的道德行為、價值觀念和生活質量。捷成認為企業社會責任 是雙贏的解決方案,除了有助於環境和社會的發展,還是可持續增長的關鍵。





Tel 電話: (852) 2923 8777 Fax 傳真: (852) 2882 1399 Email 電郵: jebseninfo@jebsen.com Website 網址: www.jebsen.com













# TRANSITION TO A LOW-CARBON CITY



Electricity generation contributes nearly 70% of Hong Kong's carbon emissions. And 90% of that electricity use comes from buildings. If we want to transform Hong Kong to a sustainable and low-carbon city, we must reduce unnecessary energy use.

Corporates play an important role in reducing carbon emissions. WWF's Low-carbon Office Operation (LOOP) programme engages forward thinking business leaders to reduce greenhouse gas generated from office operations by changing staff behaviour, adopting managerial and technological best practices, and a sustainability labelling scheme. Over the past 10 years, carbon emissions per staff of LOOP companies has significantly dropped by nearly 20%.

Corporate environmental strategists should not overlook the latest opportunities enabled by new technology, especially the Internet of Things (IoT). According to the latest LOOP annual scorecard, companies using IoT devices can save energy use by up to 30%.

"IoT devices often come with an app with a reminder function, making it easier for employees to switch off appliances. Automation helps prevent wastage when someone forgets to switch off the lights, and maximises efficiency," Nik Sam, WWF's Assistant Manager of Corporate and Community Sustainability, explained.

He added, "Not only can IoT drive behavioural change, the machine learning function can minimize energy usage costs efficiently by continuously collecting data to learn users' habit and adjust operations accordingly."

PER STAFF CARBON EMISSIONS OF LOOP COMPANIES FROM 2010 TO 2019 -19.3%

For more information on LOOP, please contact us at loop@wwf.org.hk.



Read our Long-term Decarbonizatio Strategy







# Continues to support WWF-Hong Kong in its work to protect and improve the environment for a sustainable future.





## **OUR CENTRES**











Our Visitor Centres are now open with small group activities. We have enhanced our health precautions and adjusted opening hours to welcome your family and friends mid-week and weekends at Mai Po, Hoi Ha Wan and Island House with easy booking online!





















# GET INVOLVED. WWF-Hong Kong hosts an array of supporter events for the public, schools and corporate members at our three centres.

### KEY EVENTS

Check out the upcoming supporter engagement activities at our centres, which take place with small groups in the outdoors.





ISLAND HOUSE FESTIVAL

WALK FOR NATURE

7-8 November 2020

27-28 Jun / 3-4 Oct / 5-6 Dec 2020













#### **GEI WAI HARVESTING** Runs till Aug 2020



CENTRAL SUSTAINABLE LIVING HUB 15-16 Aug / 12-13 Sep 2020



ORCHID GARDEN @ ISLAND HOUSE April-June 2021



### CHINESE WHITE DOLPHIN

Alarmingly, local dolphin abundance in Hong Kong has dropped by over 80% in the past 15 years. The time for action is now.





### CORPORATE

Corporate members can join eco-guided visits and activities or use our centres for conservation volunteering, upcycling and eco-guided activities, shoreline clean-ups, and sustainability workshops.



The Chinese white dolphin of the Pearl River is a unique and shared heritage of Hong Kong, Macau and Guangdong. It would be a global tragedy to lose this iconic creature from the future of the Greater Bay Area.



Working to sustain the natural world for people and wildlife 為人類及野生生物延續大自然 together possible © 1986 Panda symbol WWF ® "WWF" is a WWF Registered Trademark © 1986 聚蝴彈誌 WWF, ® "WWF"是世界自然基金會的註冊寫標

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Tel 電話: (852) 2526 1011 Fax (8具: (852) 2845 2764 Email 電影: ww/@wwf.org.hk Registered Name 註冊名稱: World Wide Fund For Nature Hong Kong 世界自然 (香港) 基金值 (Incorporated in Hong Kong with limited liability by guarantee 於香港註冊成立的擔保有限公司)