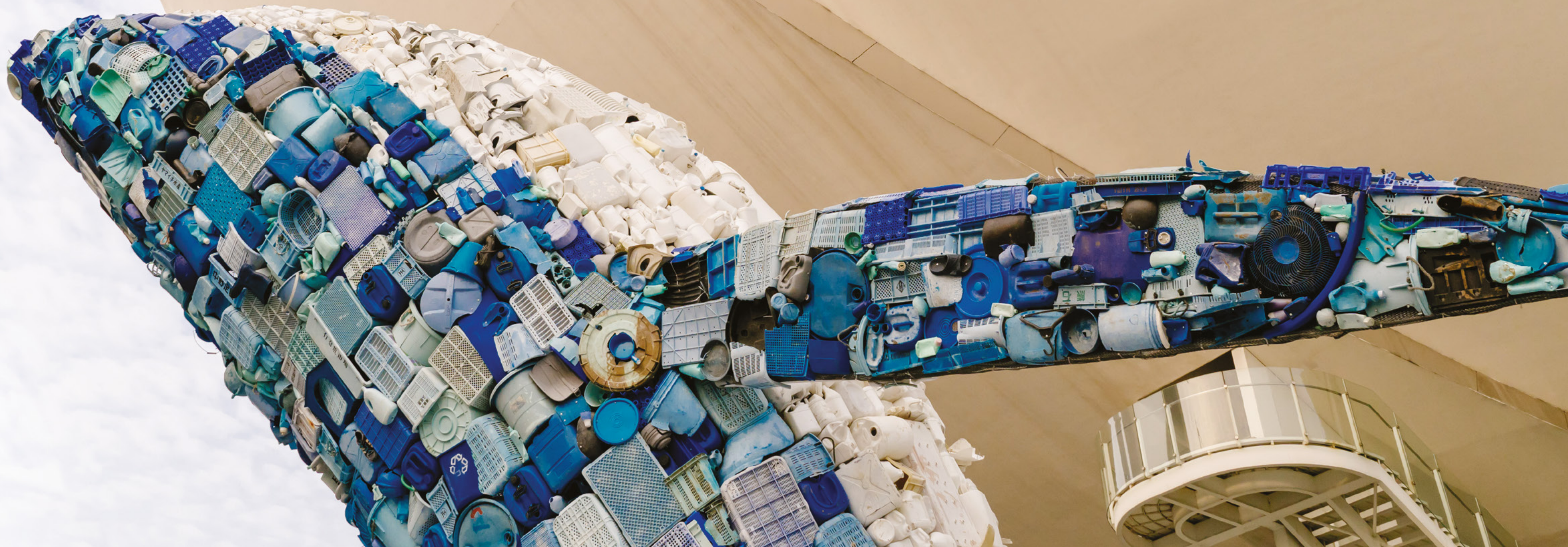


ECO360 FOCUS

SUSTAINABILITY HIGHLIGHTS 2019



ABOUT MARINA BAY SANDS®

Marina Bay Sands is Asia's leading destination for business, leisure and entertainment, delivering unparalleled experiences for our guests. Located at the heart of Singapore's Central Business District, Marina Bay Sands' iconic design and multidimensional offerings have transformed Singapore's city skyline and its tourism landscape since opening on 27 April 2010. The destination offers an ultra-luxury hotel capped with a sky roof, state-of-the-art convention and exhibition facilities, a museum, theatre, world-class entertainment and the best shopping and dining in the region. The three hotel towers are crowned by the spectacular Sands SkyPark located on level 57.

On 3 April 2019, Marina Bay Sands announced a bold USD\$3.3 billion (S\$4.5 billion) expansion plan to enhance our offerings. This will include a 15,000-seat entertainment arena and a luxury hotel capped with a sky roof, as well as additional meetings and convention space.



OUR ROLE IN SHAPING A SUSTAINABLE FUTURE

2019 was a landmark year for Marina Bay Sands. In April, we prepared to meet growing global competition in the next decade with the signing of our S\$4.5 billion expansion plan, and marked several milestones towards running an even more sustainable business.

We focused our energy on five key areas in 2019: Environmental Footprint, Sustainable Events, Partnerships, Responsible Food and Materials. We've made tremendous strides in each, but there are three in particular that I would like to highlight.

First, Responsible Food. In March, we were a launch partner of Impossible Foods and became among the first in Singapore to unveil the highly anticipated plant-based meat. Now served at six Marina Bay Sands restaurants, *Impossible* enables us to provide customers with a sustainable alternative to meat.

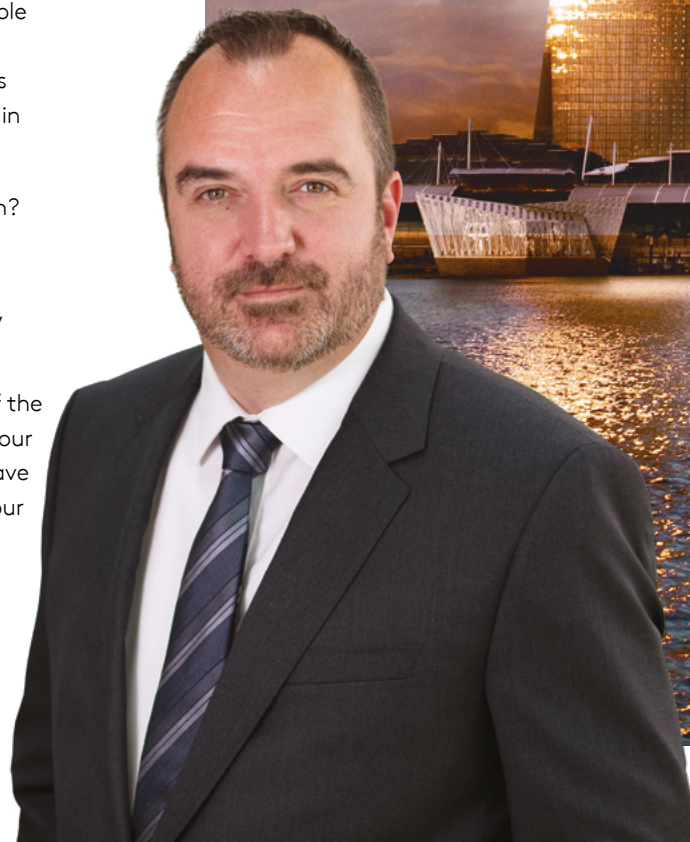
We also further bolstered our status during the year as one of Asia Pacific's most sustainable venues, with our state-of-the-art Sands Expo and Convention Centre being certified Leadership in Energy and Environmental Design (LEED) Platinum. This marks the industry's first meetings, incentives, conferences and exhibitions (MICE) venue in Asia Pacific to attain this prestigious recognition for Building Operations and Maintenance.

Finally, who could forget the 12-metre-tall whale displayed outside the ArtScience Museum? Brought to Singapore in partnership with Ocean Recovery Alliance and STUDIOKCA in New York, the awe-inspiring sculpture was made from five tonnes of plastic recovered from the Pacific Ocean. The installation highlighted the magnitude of the plastic problem, educating Team Members and visitors alike in a refreshing and informative way.

It would be remiss of us not to address the challenging operational environment in light of the COVID-19 pandemic. While our focus during this period is on the safety and well-being of our Team Members and customers, as well as making a difference to the lives of those who have been impacted, we remain steadfast in our commitment to sustainability, knowing that our work will never be quite done.

PAUL TOWN

Senior Vice President, Resort Operations
Chairperson, Sustainability Steering Committee



SUSTAINABILITY STEERING COMMITTEE

Established in 2011, the primary objective of the Sustainability Steering Committee (SSC) is to provide executive leadership on Marina Bay Sands' sustainability strategy, resources and performance.



PAUL TOWN
Senior Vice President
Resort Operations
& General Counsel
(SSC Chairperson)



FARIS ALSAGOFF
Senior Vice President
& General Counsel



BAYBARS ORAL
Senior Vice President
Gaming Operations



SUZIE TAN
Senior Vice President
Finance



MAUNIK THACKER
Senior Vice President
Marketing



NICHOLAS IONIDES
Vice President
Communications

OUR SUSTAINABILITY JOURNEY

2011

Established **Sustainability Steering Committee**

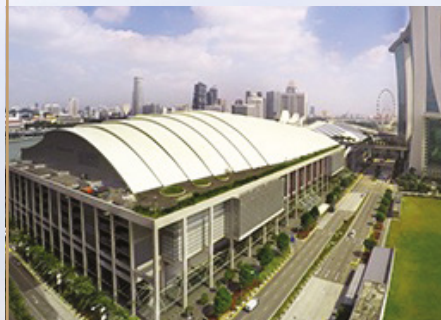
2012

Set up **Sustainability department**

BCA Green Mark Gold AWARD

Launched company-wide **sustainability education programme** for Team Members

FIRST building outside US to achieve **APEX/ASTM Venue Level One** certification



2013

Formed **Energy and Water Management** teams

Launched **Sands ECO360 meetings programme**

FIRST **MICE facility in Singapore** to adopt Singapore Tourism Board's MICE sustainability guidelines

2014

EarthCheck Silver Certification

FIRST **ISO 20121-certified MICE facility in SE Asia** for sustainable events management system

Removed shark fin from menus in owned and operated restaurants plus Sands Expo and Convention Centre

2015

BCA Green Mark Platinum recertification

UFI Sustainable Development AWARD

IMEX (Frankfurt) Green Supplier AWARD

Began partnering with **Clean the World** to collect and recycle soap to make new bars for families in need



2016

Hosted fifth Responsible Business Forum on Sustainable Development – **Singapore's first Zero Waste to Landfill event**

NEA 3R Packaging awards – **Merit**

NEA and SHA 3R Hotel awards – **Distinction**

FIRST venue in Singapore to achieve **MICE Sustainability Certification (SACEOS)**

PATA Grand AWARD WINNER for Sands ECO360 meetings programme

2017

Announced landmark partnership with WWF-Singapore around responsible procurement and supply chain transformation. By 2020, we aim to have 50% of all seafood by volume sourced responsibly.

Installed 145kWp solar power system atop the Sands SkyPark – the highest location of solar panels in Singapore

Singapore Green Hotel Awards – recognised for being a leader in sustainability

NEA 3R AWARD for Shopping Malls for **The Shoppes at Marina Bay Sands**

2018

ASEAN Tourism Standards Green Hotel award and MICE Venue AWARD

LEED Gold for ArtScience Museum (Existing Buildings: Operations & Maintenance) – the

FIRST museum in Asia Pacific to receive the honour



2019

LEED Platinum for Sands Expo & Convention Centre (Building Operations and Maintenance) – first MICE venue in Asia Pacific to attain this recognition

First MICE facility to receive the Singapore Health Promotion Board's Healthier Choice accreditation

Launch of Impossible at three celebrity chef restaurants



2019 SUSTAINABILITY PERFORMANCE & KEY HIGHLIGHTS

ENVIRONMENTAL FOOTPRINT



CARBON FOOTPRINT

GOAL ↓3% VS 2018

Actual ↑1%



ENERGY

GOAL ↓3% VS 2018

Actual ↑3.3%



WATER

GOAL ↓2% VS 2018

Actual ↑1.6%



WASTE TO LANDFILL

GOAL ↓5% VS 2018

Actual ↑4.5%

OPERATIONS RECYCLING RATE

GOAL 25%

Actual 26.9%

SUSTAINABLE EVENTS



EVENTS

GOAL 20%

Actual 19.5%

Hosted Temasek's Ecosperity Week, drawing over 3,000 delegates from more than 80 countries



PARTNERSHIPS

TEAM MEMBER ENGAGEMENT



UNIQUE PARTICIPATION

GOAL 80%

Actual 75.3%



ACTIONS

GOAL 40,000

Actual 44,392

Continued partnerships with WWF-Singapore; developed new partnerships with Jane Goodall Institute (Singapore) and Green Monday, among others



RESPONSIBLE FOOD

Installed food waste tracking technology at Team Member dining rooms and RISE Restaurant



MATERIALS



SUSTAINABLE PAPER BY 2020

GOAL 100%

Actual 74%



LED LIGHTING BY 2020

GOAL 100%

Actual 70%



ENERGY STAR TVS BY 2020

GOAL 100%

Actual 10%



SUSTAINABLE CLEANING CHEMICALS BY 2020

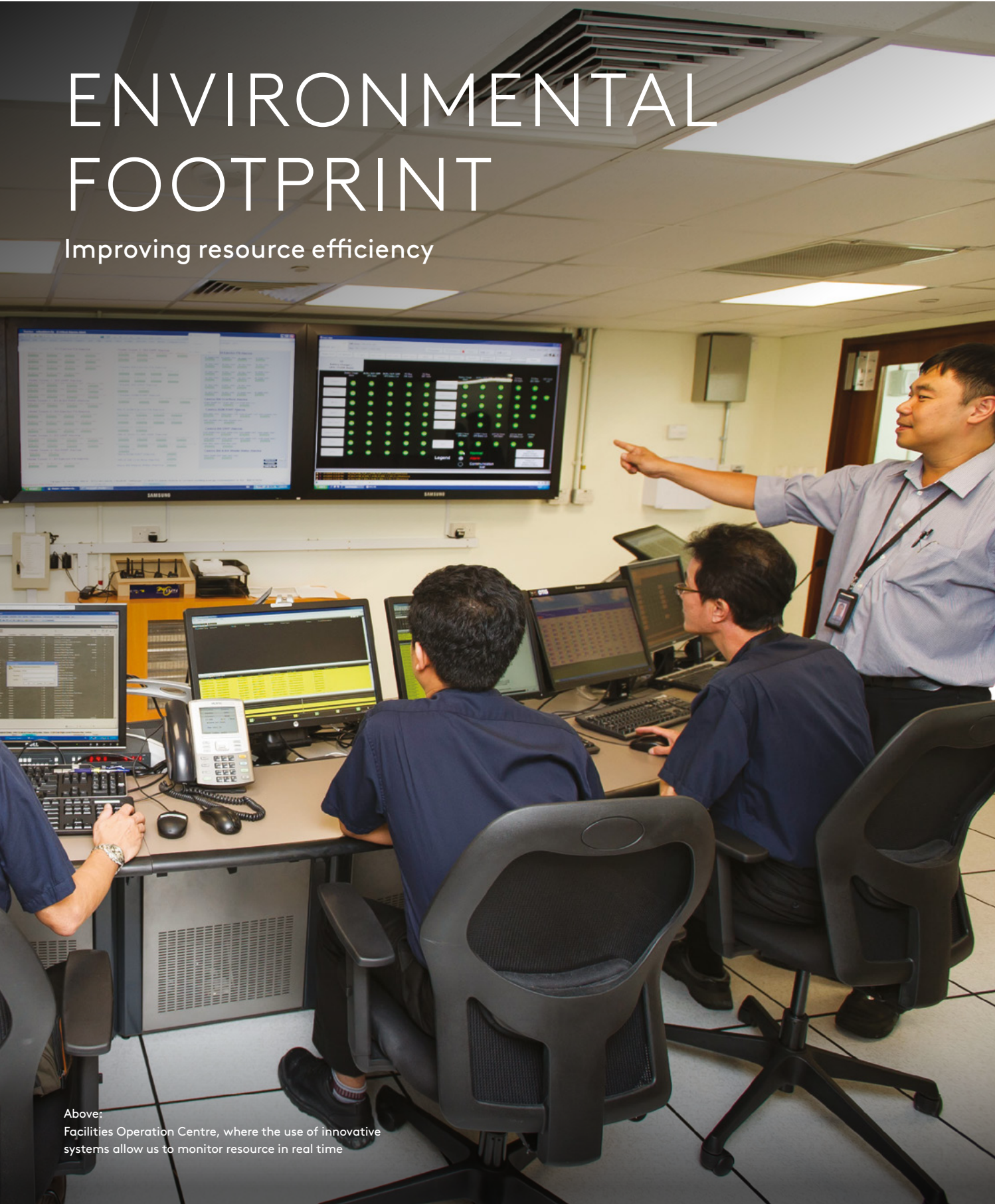
GOAL 100%

Actual 31%

Completed life cycle assessment of single-use replacement alternatives with leading international sustainability non-profit Forum for the Future

ENVIRONMENTAL FOOTPRINT

Improving resource efficiency

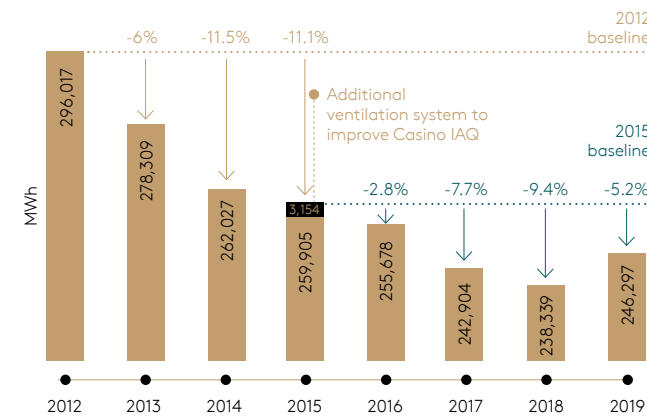


Above: Facilities Operation Centre, where the use of innovative systems allow us to monitor resource in real time

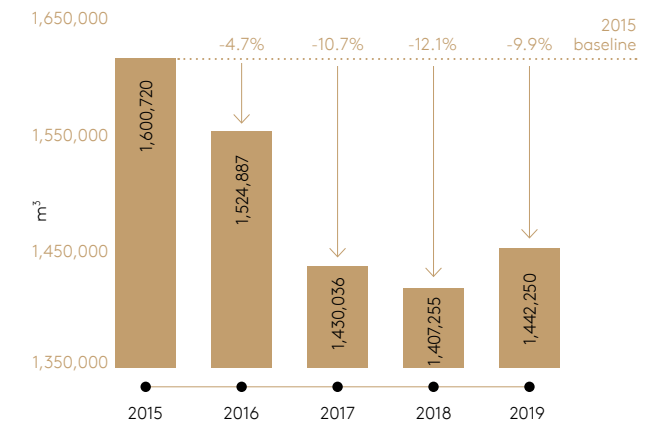
At Marina Bay Sands, we recognise the need to streamline our operations and minimise our environmental impact even as we continue to grow our business. By maximising efficiencies in our operations and applying innovative solutions, we have been able to decouple our carbon footprint from business growth.

While we saw a year-over-year increase in both our energy and water use, our overall consumption pattern is still in line with a downward trend. The increase in 2019 can be attributed to expanding business activity at our Sands Expo and Convention Centre, as well as the opening of MARQUEE (Singapore's largest nightclub), KOMA (a Japanese restaurant and sushi bar) and AVENUE Lounge.

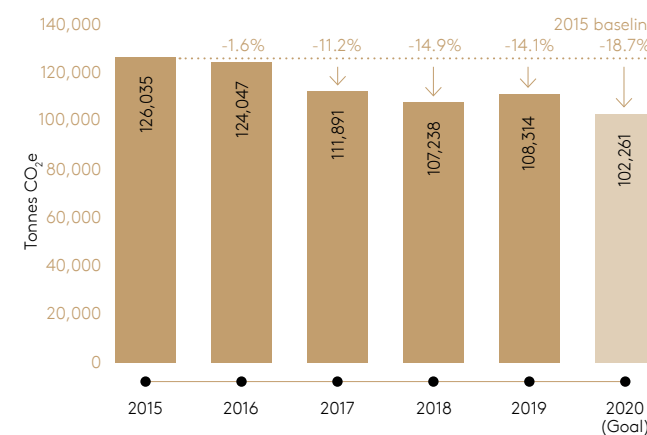
ENERGY CONSUMPTION TREND – BASE YEAR 2012 AND 2015



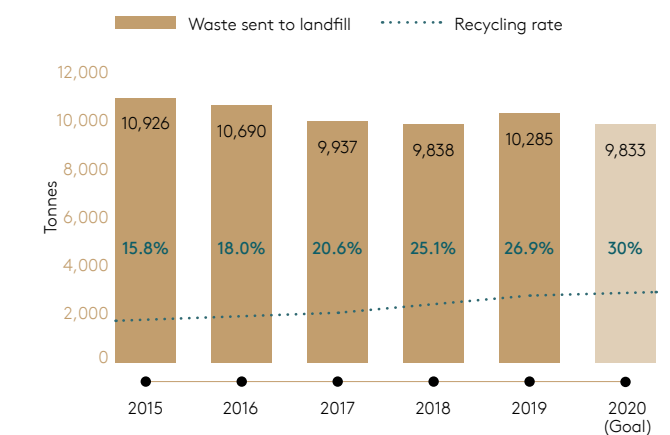
WATER CONSUMPTION TREND – BASE YEAR 2015



CARBON EMISSIONS



PROPERTY WASTE



SUSTAINABLE EVENTS

Working closely with our clients to help meet their sustainability goals

With our state-of-the-art smart building and a deeply ingrained sustainability ethos in our operations, we pride ourselves on being one of the most sustainable event venues in the region. Our commitment to rigorous standards of sustainability means that we are more than well placed to support our clients in meeting their sustainability goals.



SANDS EXPO AND CONVENTION CENTRE AWARDED PRESTIGIOUS LEED® PLATINUM GREEN BUILDING CERTIFICATION

In 2019, the Sands Expo and Convention Centre became the first MICE venue in Asia Pacific to be awarded the prestigious LEED® Platinum certification for Building Operations and Maintenance.

Developed by the U.S. Green Building Council, the LEED rating system is the most widely used green building rating system in the world. It recognises buildings designed, constructed, maintained and operated at the highest levels for improved environmental performance. The accolade comes on the back of the integrated resort's ArtScience Museum achieving LEED Gold certification in 2018.



FIRST MICE VENUE IN ASIA PACIFIC TO ATTAIN THE LEED® PLATINUM CERTIFICATION



Above:
Sands Expo & Convention Centre

ECOSPENSITY 2019

The Sands Expo and Convention Centre hosted the 2019 Ecosperity Week, an annual confluence of events that collectively define the sustainability priorities of corporations today. 'Ecosperity' combines 'ecology' with 'prosperity', reflecting the belief that doing good and doing well can – and must – go together.

Presented by Temasek – a global investment company headquartered in Singapore – the anchor Ecosperity Conference, together with co-located partner events, brought together corporate leaders, innovators, policymakers and experts from all around the world to discuss sustainability topics with a business focus and explore how growth can thrive in a sustainable fashion.

With our sustainable event advisory services and industry-leading Event Impact Statement, Marina Bay Sands was able to help Temasek understand its event environmental footprint as well as bring its sustainability values to life. The integrated resort's circularity lectern made from plastic bottles and paper waste also got its moment in the spotlight as Mr Lim Boon Heng, Chairman of Temasek Holdings, gave his opening address.



DELEGATES
3,000+
FROM MORE THAN
80 COUNTRIES



Credit: Temasek

PARTNERSHIPS

Sharing solutions for a more sustainable world

With climate change accelerating, the need for collective action is now greater than ever. We recognise that sustainability challenges are far too vast for one company or industry to tackle. The complex nature of these challenges calls for strategic partnerships between multiple parties, igniting the way forward for more sustainable ways of conducting business.

Marina Bay Sands' multifaceted offerings, scale and reach put us in a unique position to make a positive impact on the environment. We have the opportunity to educate, inspire and influence our Team Members, customers, suppliers, partners and other stakeholders to do the same.

TEAM MEMBER ENGAGEMENT

A culture of sustainability begins with a company's most important asset – its workforce. In 2019, Marina Bay Sands focused on deepening our Team Members' sustainability knowledge around five focus pillars – Environmental Footprint, Sustainable Events, Responsible Food, Materials and Partnerships. A total of 12 activities, ranging from movie screenings, disaster kit packing, workshops and cooking demonstrations were organised, with 44,752 sustainability actions taken by our Team Members. In 2019, 75.3% of our Team Members participated in at least one sustainability activity.

EDUCATION & ADVOCACY

To bring sustainability issues to the fore, Marina Bay Sands works collaboratively with various partners to educate our stakeholders and the wider public around topics such

as climate change and plastic. This is done through the integrated resort's ArtScience Museum, which explores the intersection of art, science, culture and technology.

Over the years, the museum has worked with multiple partners to stage exhibitions, programmes and educational activities advocating the urgency of taking action to address environmental threats such as climate change and biodiversity loss.



SEASON OF SUSTAINABILITY AT ARTSCIENCE MUSEUM

In October 2019, ArtScience Museum presented *Climate S.O.S – Season of Sustainability*, a showcase highlighting the impact of climate change on some of the most important ecosystems on the planet.

The centrepiece of *Climate S.O.S* was the multimedia showcase *Changing Course 2019: An exploration of climate crisis*, developed by Singapore-based media company Eco-Business in collaboration with ArtScience Museum. The exhibition featured photographic prints by a team of award-winning journalists, a virtual reality (VR) experience on the climate crisis, and the global premiere of *Arctic Awakening*, a short documentary film shot in the Arctic and Singapore.

Also part of *Climate S.O.S* was "Skyscraper" (*The Bruges Whale*), an awe-inspiring sculpture of a breaching whale made from five tonnes of plastic waste pulled from the Pacific Ocean. Approximately 12 metres in height, the sculpture serves as a stark visual reminder of the 150 million tonnes of plastic polluting our waters.

Designed by the acclaimed STUDIOKCA in New York and presented by the Ocean Recovery Alliance, Singapore was the first stop in the "Skyscraper" Asia Pacific tour. The sculpture was on display outside the ArtScience Museum from November 2019 to January 2020.

REWILD OUR PLANET

ArtScience Museum, in partnership with the immersive technology studio PHORIA, and working with the World Wide Fund for Nature (WWF), Google and Netflix, brought the immersive and interactive exhibition *REWILD Our Planet* to life based on stunning content from *Our Planet*, a Netflix original documentary series released in April 2019.

Using cutting-edge technology, *REWILD Our Planet* transported visitors into landscapes featured in the ambitious documentary, allowing them to experience our planet like never before. This augmented reality social experience – the first of its kind in Singapore – allowed multiple visitors to interact with digitally created environments, while examining how climate change impacts all living creatures.

GREEN MONDAY 2019

With the objective of promoting a healthy lifestyle and reducing carbon emissions associated with meat production, Marina Bay Sands partnered with Green Monday in July 2019 to bring Team Members an exciting range of activities. A social enterprise founded in Hong Kong, Green Monday aims to educate the public about reducing their carbon footprint and improving their health by giving up meat one day a week.

During four consecutive Mondays in July, the integrated resort's Team Member dining room served up a wider variety of vegetarian dishes and created fully plant-based mixed salads. The Sustainability team also hosted cooking demonstrations, educational booths and an hour-long talk by David Yeung, founder and CEO of Green Monday, to get Team Members excited and informed about the initiative.

DR JANE GOODALL VISITS MARINA BAY SANDS

Primatologist and 2019 Nobel Peace Prize nominee Dr Jane Goodall renews one of humanity's most powerful resources – hope. In November 2019, Marina Bay Sands partnered with the Jane Goodall Institute (Singapore) (JGIS) to host the Human-Wildlife Coexistence in Asia Conference. Following the conference, more than 300 Team Members, Sands for Singapore beneficiaries and students from JGIS's Roots & Shoots programme were treated to a private screening of the documentary *JANE* and had the valuable opportunity to meet Dr Goodall in person. *JANE* is an award-winning documentary of Dr Goodall's ground-breaking chimpanzee research and her efforts to revolutionise the understanding of the natural world.



RESPONSIBLE FOOD

Delivering responsibly sourced choices with a smaller environmental footprint

Food plays a pivotal role in our operations and presents Marina Bay Sands with an important opportunity to deliver to our guests a sustainable culinary experience featuring responsibly sourced seafood and plant-based meat, as well as ingredients from our herb garden and around the region.

Since announcing our partnership with WWF-Singapore in 2017, we have made tremendous progress towards our goal of having 50% of our seafood responsibly sourced by 2020. We have also been supporting seven aquaculture farms in Malaysia in their journey towards sustainable farming. As a result of our partnership with WWF-Singapore, farms in Penang, Perak, Selangor and Tawau have been improving their farming practices, producing 350 tonnes of responsible seafood in 2019.

Right: Fishermen in Marudu Bay, Sabah, Malaysia

Below: Chef harvesting herbs for our restaurants from our RISE Herb Garden



IMPROVING FISHERY PRACTICES IN MARUDU BAY, MALAYSIA

With support from Marina Bay Sands, WWF established the first project to improve fishery practices at Marudu Bay in Tun Mustapha Park in 2019. Measuring almost one million hectares and with more than 50 islands and islets, Tun Mustapha Park is the largest Marine Protected Area in Malaysia.

WWF adopted a pragmatic and stepwise approach, working with the fishery to pilot solutions to enhance its sustainability practices. In the longer term, this will ensure food security for communities in Sabah and beyond by protecting future seafood supplies.

Right: Bread Street Kitchen by Gordon Ramsay's The Impossible BSK Burger



TASTE THE IMPOSSIBLE

Have you ever considered the footprint of the meat in your burger or steak? From the amount of water and feed it takes to groom the cattle to the land it takes to raise livestock, we often neglect the environmental impacts of the food we consume.

In March 2019, Marina Bay Sands unveiled the highly anticipated *Impossible*, a plant-based product that looks, tastes and feels like meat, at three of our celebrity chef restaurants. Gluten and cholesterol free, the savoury plant-based meat is void of animal hormones or antibiotics, potentially making it the meat of the future. *Impossible* also uses a small fraction of land, water and energy compared to animal agriculture, which occupies nearly half of the world's land and produces 15% of global greenhouse gas emissions.

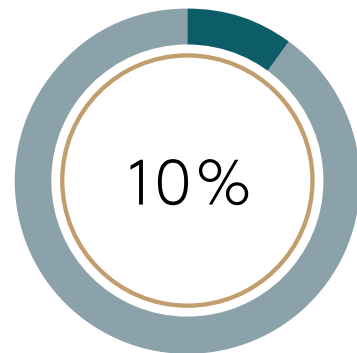
As of December 2019, *Impossible* is served at six restaurants at Marina Bay Sands.



MATERIALS

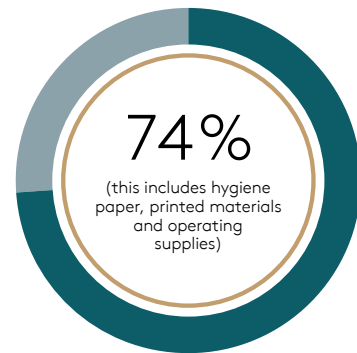
Choosing products with a lower environmental impact

ENERGY STAR TVS



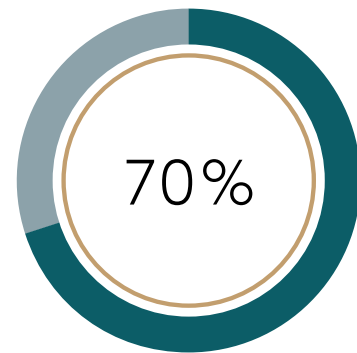
GOAL 100% BY 2020

SUSTAINABLE PAPER



GOAL 100% BY 2020

LED LIGHTING



GOAL 100% BY 2020

SUSTAINABLE CLEANING CHEMICALS



GOAL 100% BY 2020



Ensuring that the glass bottles are properly sealed

An endless number of products, an infinite number of choices. Given the scale of our business, the materials and products that we use undoubtedly have a significant impact on the environment. However, this very scale, coupled with our influence and resources, is also what puts us in a good position to create transformational change among our stakeholders and across our value chain.

Marina Bay Sands adopts a rigorous, science-based approach in our efforts, carefully balancing our operational needs and customer demands with our potential impact on the environment. By framing sustainability in terms of the composition of the products we use and how we utilise and dispose of them, we are able to break down complex decisions into actionable steps.



Above: Housekeeping Team Member placing the glass bottles of water in the room as part of a three-month pilot

REDUCING SINGLE-USE PLASTICS

Cognisant of our responsibility to address our plastic footprint, Marina Bay Sands adopted a considered, science-based approach and completed a life cycle assessment of single-use plastic replacement alternatives in 2019. This was conducted with international non-profit Forum for the Future and leading Singaporean expert and environmental engineer, Dr Kua Harn Wei.

The year-long study looked into the Global Warming Potential (GWP) (greenhouse gases produced throughout the material's life cycle) of single-use plastics and its

alternatives. Glass, for example, has a significantly higher GWP than plastic due to its weight, and has to be reused multiple times for its total GWP to be reduced. Bioplastic was also found to be an unviable alternative due to lack of available research on its decomposition in the marine environment and its fossil fuel-derived content.

Following this study, a single-use product decision-making framework has been developed. The aim is to complete an extensive benchmarking exercise with key stakeholder departments in 2020.

BEYOND 2020

Our future focus

Since opening our doors in 2010, Marina Bay Sands has made significant progress in our sustainability journey. But we recognise that we must not, and cannot, rest on our laurels. To radically accelerate the pace of change for a sustainable future, we will have to be even more ambitious with our plans, and equally resolute in our actions.

Taking into account the global sustainability landscape and the progress that we have made in 2019, we have refined our focus for 2020 to five key pillars: Climate Response, Water, Waste and Circularity, Sustainable Food and Culture and Capacity Building. These pillars reflect our ongoing commitment to addressing issues in these areas where we know we can make a significant difference, supporting Singapore's strategy to build a sustainable, resource-efficient and climate-resilient nation.

Marina Bay Sands will continue to adopt a forward-looking approach, fine-tuning our blueprint while operating as responsibly, efficiently and sustainably as possible.



1
CLIMATE RESPONSE

Decouple carbon footprint from business growth by reducing reliance on fossil fuels, adopting smart technology and driving more effective use of materials



2
WATER

Optimise operational efficiency and raise awareness of water issues



3
WASTE & CIRCULARITY

Embrace 3R and circularity principles to enhance our waste management systems and maximise resources



4
SUSTAINABLE FOOD

Deliver diverse and delectable choices that emphasise our commitment to sustainable, local, healthy and exciting cuisines



5
CULTURE & CAPACITY BUILDING

Communicate our commitments across both operations and the supply chain by inspiring and engaging our customers, partners, and Team Members

CONTACT US

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For more information on Sands ECO360 and
our global sustainability initiatives, please visit:
www.sands.com/sands-eco-360/our-vision.html

To download our corporate annual environmental progress reports, please visit:
www.sands.com/sands-eco-360/our-news/environmental-report.html

SANDS ECO-360

MARINA BAY Sands
SINGAPORE

