

Media Release

Sentosa launches ambitious sustainability roadmap in major push towards climate goals

- *As part of Sustainable Sentosa strategic roadmap, Sentosa targets to achieve carbon neutrality by 2030 and become a globally recognised, certified sustainable tourism destination*
- *Multi-pronged roadmap includes electrification of all Sentosa transportation, leveraging underutilised spaces for renewable energy, development of low energy buildings, green events, and more*
- *Inaugural initiatives under refreshed strategic roadmap include (i) the Sentosa Carbon Neutral Network – Singapore’s first carbon neutrality-focused business alliance comprising 17 founding members, and (ii) new sustainability-themed tours*
- *Supported by the collective efforts of various island stakeholders and partners, this whole-of-Sentosa initiative aims for the 500-hectare island resort to be GSTC certified as a sustainable destination by 2022*

Singapore, 17 September 2021 – Sentosa Development Corporation (SDC) is committing to major goals in the next phase of the Sustainable Sentosa strategic roadmap, in support of the Singapore Green Plan 2030 to build a sustainable Singapore, and safeguard a greener world for future generations of Singaporeans and global visitors. Unveiled today, the landmark roadmap, which builds on the island’s past sustainability efforts and unique value proposition, will see the Sentosa community first focusing on six key areas¹ to achieve the island’s dual goals of achieving carbon neutrality by 2030 and becoming a globally recognised, certified sustainable tourism destination.

Ms Thien Kwee Eng, Chief Executive Officer, SDC, said, “As a prominent island destination that is home to an ecosystem of leisure experiences and businesses, Sentosa is a microcosm of Singapore, and provides a unique environment to trial and implement innovative solutions that can advance Singapore’s sustainability journey. This is a journey that requires collective effort, and we are proud to be launching the Sustainable Sentosa strategic roadmap with the strong support from our island businesses and partners. Through these efforts, we will strengthen Sentosa’s position as a beloved getaway for Singaporeans, and as a sustainable tourism destination. We look forward to implementing meaningful initiatives that inspire Singaporeans and businesses to take action towards a sustainable future.”

In line with Sentosa’s goals, guests and businesses will see the launch of various sustainability-focused initiatives and experiences, creating an important ecosystem for solutions, education, and ideas in the nation’s sustainability journey. The initiatives include:

¹ As SDC continues to build on the island’s sustainability efforts, additional areas of focus may be introduced to meet Sentosa’s long term goals.

Goal 1: Achieve Carbon Neutrality by 2030

Key Focus Areas

Launch of Singapore's First Carbon Neutrality-Focused Business Alliance, in tandem with Broadening of SDC's Sustainability Partnerships

The Sentosa Carbon Neutral Network (SCNN) aims to collectively achieve Sentosa's carbon neutrality by 2030. Comprising 17 founding members, the SCNN including SDC will collaborate to implement various initiatives, with the collective potential to reduce carbon emissions by up to 30%, compared to 2019 baselines. Through collaborations with other like-minded partners across public, private, and non-profit sectors, SDC will also be studying possibilities for carbon and waste reduction, as well as education and advocacy. (please see Annexes A & B).

Harnessing Renewable Energy

As part of SDC's partnerships, SDC will implement new infrastructure solutions for carbon mitigation, with a focus on studying solutions to harness renewable energy, such as solar and tidal energy, as well as waste-to-energy generation. Waste-to-energy systems will facilitate a circular economy, as Sentosa moves towards becoming a zero-waste precinct. Collectively, these projects have the potential to generate sufficient renewable energy annually² to offset the emissions of approximately 300,000 hotel room nights (please see Annex B).

Greening Transportation and Infrastructure

Transport: Come 2025, 100% of Sentosa's on-island public transportation will be electric, with electric buses to be progressively deployed in Sentosa from 2022. As a start, Sentosa's fleet of beach shuttles have been fully-electric since 2020, and an electric bus trial with ComfortDelGro Bus will begin in October 2021. All SDC-owned carparks will also be electric vehicle (EV) charging-enabled by 2030.

Infrastructure: All new SDC-owned buildings will be constructed to attain Green Mark Platinum Super Low Energy (SLE) certification.

Goal 2: Become a Globally Recognised, Certified Sustainable Tourism Destination

Key Focus Areas:

Robust Sustainable Tourism Offerings

Sustainability-themed tours: Through a series of new sustainability-themed tours to be progressively launched from December 2021, guests will better understand the importance of sustainability through an immersion into the unique heritage, biodiversity and nature in Sentosa as well as neighbouring islands (please see Annex C).

Connecting Sentosa to the Southern Islands: SDC is launching a new gateway to the wider Southern Islands archipelago, with a new ferry jetty at Sentosa Cove Village offering ferry services from the fourth quarter of 2021. The jetty will extend the Sentosa getaway to its neighbouring islands by

² Based on a study done by ENGIE Impact, a consulting firm helping organisations accelerate their sustainability transformation, these projects are estimated to have the potential of generating up to 19.5GWh of renewable energy annually, which can offset an estimated 8 ktCO₂e.

offering Sentosa's guests convenient access to a rustic eco-destination. Together with partners, SDC will also launch new sustainability-focused leisure experiences at the Southern Islands.

Greening Businesses and Guest Experiences

In collaboration with island businesses, SDC will roll out guidelines by 2022 to encourage all Sentosa businesses to strengthen their sustainability practices through initiatives, such as reducing disposables, increasing locally-sourced produce, and adopting renewable energy solutions. Sentosa will also offer green options for Meetings, Incentives, Conferences, Exhibitions (MICE) and wedding packages by 2022, which will include options to neutralise the events' carbon footprints.

Achieving Global Accreditation by 2022

Sentosa will benchmark the island's offerings against international standards, such as that of the Global Sustainable Tourism Council's (GSTC³). Sentosa targets to be certified by GSTC as a sustainable destination by its Golden Jubilee Year in 2022. Such benchmarking efforts will be supported by island policies and programmes that preserve and enhance Sentosa's natural and heritage assets against developmental and leisure needs.

Please see **Annex D** for more information on the six focus areas, and **Annex E** for more information on the sustainability efforts that SDC is building on.

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³ The Global Sustainable Tourism Council (GSTC) manages global standards for sustainable travel and tourism, and acts as the international accreditation body for sustainable tourism certification.

About Sentosa

Sentosa is Asia's leading leisure destination and Singapore's premier island resort getaway, located within 15 minutes from the central business and shopping districts. The island resort is managed by Sentosa Development Corporation, which works with various stakeholders in overseeing property investments, attractions development, and operation of the various leisure offerings and management of the residential precinct on the island.

The 500-hectare island resort is home to an exciting array of themed attractions, award-winning spa retreats, lush rainforests, golden sandy beaches, resort accommodations, world-renowned golf courses, a deep-water yachting marina and luxurious residences – making Sentosa a vibrant island resort for business and leisure. Making Sentosa its home, too, is Singapore's first integrated resort, Resorts World Sentosa, which operates South East Asia's first Universal Studios theme park.

Situated on the eastern end of Sentosa Island is Sentosa Cove, an exclusive oceanfront and residential enclave bustling with some 2,000 homes, romantic quayside restaurants, retail and specialty shops. The Island is also proud to be home to Sentosa Golf Club and its two acclaimed golf courses, The Serapong and The New Tanjong. Sentosa Golf Club hosts the SMBC Singapore Open and the HSBC Women's World Championship, featuring some of the world's best golf professionals.

Welcoming a growing number of local and international guests every year, Sentosa is an integral part of Singapore's goal to be a global destination to work, live and play. For more information, please visit: www.sentosa.com.sg.

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Annex A

Launch of Sentosa Carbon Neutral Network

In a landmark development for the industry, SDC has launched Singapore's first carbon neutrality-driven business alliance, the Sentosa Carbon Neutral Network (SCNN). This is a collective public-private effort to achieve Sentosa's sustainability goals, including carbon neutrality by 2030. Together, SDC and the network of industry players will develop Sentosa-wide sustainability solutions through the sharing of resources and expertise, while also leveraging economies of scale and a common network to introduce large-scale solutions.

These efforts include the development of green MICE offerings, sustainable events, as well as guidelines for reducing disposables. SDC will also collaborate with the Singapore Food Agency (SFA) to increase the use of locally-sourced produce across Sentosa's hotels and restaurants. Meanwhile, in addition to implementing various initiatives with the potential to reduce carbon emissions by up to 30% compared with 2019 baselines, SCNN will invest in credible carbon offsets and imported renewable energy to neutralise the remaining carbon profile.

Established in September 2021, the network comprises 17 founding members, including SDC and major businesses in Sentosa: Amara Sanctuary Resort Sentosa, Capella Hotel Singapore, C Side (Bikini Bar, Coastes and Sand Bar), Far East Hospitality Management Singapore, FOC Sentosa, Madame Tussauds Singapore, Mount Faber Leisure, Ola Beach Club, Resorts World Sentosa, Rumours Beach Club, Sentosa Golf Club, Scentopia, Shangri-La Rasa Sentosa, Siloso Beach Resort, Tanjong Beach Club and W Singapore-Sentosa Cove.

Collectively, these members account for more than 90% of the island's estimated carbon profile, thus potentially bringing about the largest reductions in Sentosa's carbon emissions. The formation of the network follows Sentosa's island-wide carbon profiling initiative, which began in 2020, to establish Sentosa's island carbon profile baseline and guide future carbon mitigation and abatement efforts.

Mr Tan Hee Teck, Chief Executive Officer, Resorts World Sentosa, shared, "Resorts World Sentosa (RWS) is honoured to be one of the founding members of the Sentosa Carbon Neutral Network (SCNN). In committing to carbon neutrality by 2030, RWS will collaborate with SCNN members to position Sentosa as a sustainable and carbon neutral destination. Adopting a holistic approach to sustainability, we believe that embedding sustainability in the heart of our business goes hand in hand with creating greater social impact as well as shared value for our customers and community. Besides developing green MICE offerings and sustainable events, we are committed to strengthening climate resilience and achieving carbon neutrality by 2030. Going forward, we will also establish more collaborations with strategic partners to further our sustainability goals."

Mr Gavin Weightman, General Manager, Shangri-La Rasa Sentosa, said, "Since the setting up on Sentosa as its first beachfront resort hotel in 1993, Shangri-La Rasa Sentosa strives to do the right thing from the heart, with integrity, care and sustainability, enriching the quality of life for those around us. As part of our ongoing efforts to create a trusted and nurturing environment for guests, we are delighted to be a founding member of SCNN and working in partnership with SDC to achieve Sentosa's sustainability goals by 2030."

Ms Christina Tran, Managing Director of Ola Beach Club, added, “Ola Beach Club is very excited about Sentosa’s carbon neutrality initiative and honoured to be a member of the Sentosa Carbon Neutral Network. With the support of Sentosa and fellow neighbours, we are confident our goals for a sustainable business will be realised. Sustainability, especially ocean sustainability, has always been a key focus for Ola Beach Club as we are located on the beachfront, and we have incorporated sustainable elements where feasible since the inception of the project. For example, we repurposed materials to give them a second life, cultivated an organic edible garden for our kitchen and community, and incorporated activities such as beach clean ups to create a mindful awareness and appreciation of the nature we are operating in. On the business development front, we are incorporating and venturing into opportunities which focus on garnering public awareness on the needs of and methods to achieve a more sustainable lifestyle. With the guidance and support of SDC, we are working to identify areas of improvement and carbon mitigation as we progress towards a carbon neutral 2030.”

Annex B

Expansion of SDC's knowledge, technological and advocacy partners

In addition to the launch of the Sentosa Carbon Neutral Network, partnerships on innovative technologies and solutions will also be key enablers in the Sustainable Sentosa strategic roadmap. Through collaborations with partners such as the Centre for Liveable Cities (CLC); Global Compact Network Singapore (GCNS); Ministry of Education (MOE); National Youth Council (NYC); Nanyang Technological University Singapore's (NTU Singapore's) Earth Observatory of Singapore (EOS) and The Asian School of the Environment (ASE); National University of Singapore's Centre for Nature-based Climate Solutions (NUS CNCS); Temasek; Temasek Polytechnic; and World Wide Fund for Nature Singapore (WWF-Singapore), SDC will be studying possibilities for carbon and waste reduction, as well as education and advocacy.

- **Innovative solutions to reduce the consumption of fossil-based energy:**
Under the SDC-Temasek Memorandum of Understanding (MoU), SDC and Temasek are studying sustainable solutions that reduce the consumption of fossil-based energy. These include installing floating solar panels at unused sea spaces around Sentosa, as well as waste-to-energy gasification that transforms horticultural waste into synthetic gas as a low-emission fuel to generate electricity. Waste-to-energy systems will facilitate a circular economy, as Sentosa moves towards becoming a zero-waste precinct.
- **Research and development on nature-based carbon sequestration:**
Through SDC's partnership with NUS CNCS, SDC is furthering its understanding of blue carbon. Sentosa is home to blue carbon habitats such as seagrasses and mangroves, which can capture and store carbon. These important coastal habitats are found along the island's southern and northern coasts and have the capacity to support Sentosa's carbon sequestration efforts. As such, the research, protection, and enhancement of these precious coastal ecosystems are pivotal to the long-term conservation of Sentosa's natural heritage and carbon reduction efforts.
- **Developing best practices in sustainable leisure and tourism:**
Through SDC's collaborations with CLC, GCNS and WWF-Singapore, SDC will study and adopt sustainability best practices to support the island's business establishments to collectively achieve Sentosa's sustainability goals. Such best practices could be in the areas of disposables management, carbon abatement, food waste reduction, and wildlife conservation.
- **Engaging the next generation:**
SDC's collaborations with the education and youth sectors aim to foster a deeper understanding of the importance of sustainability in future generations. SDC is collaborating with MOE to develop lesson resources on sustainability for secondary school students, and is also partnering Temasek Polytechnic to engage students on sustainability-related projects, such as upcycling plastic waste and exploring how digitalisation can play a part in sustainability. SDC has also partnered NYC to support ongoing youth engagement programmes and jointly curate new activities to engage youth volunteers in Sentosa.

- **Strengthening conservation:**

With Sentosa's natural offerings – such as nature and heritage – among the island's unique leisure experiences, SDC is partnering NTU Singapore's EOS and ASE to study and enhance Sentosa's natural habitats, such as the island's forested areas, as well as native flora and fauna.

Annex C

Sustainability advocacy and education

A destination rich in heritage and biodiversity, Sentosa will leverage on its natural assets and geographical location to champion sustainable travel and leisure activities.

Come December 2021, Sentosa will launch of a series of new sustainability-themed tours, to highlight the importance of building a sustainable future. Through these tours, guests will be able to venture into another side of Sentosa to explore its hidden gems, while appreciating nature conservation efforts, marine life, and heritage assets.

With Sentosa as a gateway to the Southern Islands archipelago and just 10 minutes from St John's Island, SDC will also launch new low-carbon leisure experiences in the Southern Islands to extend the Sentosa getaway. This will be in conjunction with the opening of a new ferry jetty at Sentosa Cove Village, which will begin offering ferry services from the fourth quarter of 2021. As part of these new experiences, guests can look forward to traversing St John's and Lazarus Islands on rented bicycles and glamping amidst nature, while potentially having food delivered to the islands via drone delivery. In 2022, guests can look forward to immersing themselves in an off-grid⁴ rustic getaway in the Southern Islands, away from the hustle and bustle of the city.

Together, these initiatives will showcase the conservation of the rich nature, biodiversity and heritage in Sentosa and the other Southern Islands.

⁴ Off-grid buildings and infrastructure are designed to function independently of public utilities, providing resources such as water and electricity without being connected to traditional infrastructure such as an electrical grid. Advantages include being able to serve isolated areas, as well as reducing environment impact.

SUSTAINABLE SENTOSA STRATEGIC ROADMAP



ACHIEVE CARBON NEUTRALITY BY 2030

1 Broaden Sustainability Partnerships

- Launch of **Sentosa Carbon Neutral Network (SCNN)** in September 2021, Singapore's first carbon neutrality driven business alliance, representing more than **90%** of island's carbon profile
- **Expand knowledge and technological partnerships** covering carbon and waste reduction, sustainability education and awareness

2 Harness Renewable Energy

Implement **new infrastructure for carbon mitigation**, with a focus on renewable energy. Eg.

- **Solar and tidal energy** from underutilised locations
- **Upcycling waste** to synthetic gas for electricity

3 Green Transportation and Infrastructure

2021

- **Electric bus trial** to begin
- Beach shuttles, Sentosa Express and cable cars already **fully electric**
- All new SDC-owned buildings will be constructed to attain **Green Mark Platinum Super Low Energy (SLE) certification**

From 2022

- Electric buses to be **progressively deployed**

By 2025

- Electrify **100%** of on-island public transport fleet

By 2030

- **Electric vehicle (EV) charging** in all SDC-owned carpark

GLOBAL SUSTAINABLE TOURISM DESTINATION

1 Sustainable Tourism Offerings

- Inspire sustainable lifestyles through **sustainability-themed tours**, launching in **December 2021**
- Extend Sentosa's **low-carbon getaways** to nearby Southern islands

By end of 2021

- **New ferry jetty** at Sentosa Cove Village

From 2022

- **Off-grid rustic getaways** featuring low-carbon experiences such as glamping and cycling on St John's and Lazarus islands

2 Greening of Businesses and Guest Experiences

- **Guidelines by 2022** for Sentosa's businesses to reduce disposables, increase locally-sourced produce, and hold carbon neutral MICE and weddings

3 Global Accreditation

- **By 2022**, Sentosa targets to be **certified as a sustainable destination** against Global Sustainable Tourism Council (GSTC) standards

Sentosa's Goals and Ambitions

A. Carbon neutrality by 2030

A1. Launch of Singapore's First Carbon Neutral Focused Business Alliance, in tandem with Broadening of SDC's Sustainability Partnerships

- Launch of Singapore's first carbon neutrality-driven business alliance, the Sentosa Carbon Neutral Network (SCNN), to achieve the island's sustainability goals. The SCNN will develop Sentosa-wide sustainability solutions through the sharing of resources and expertise, while leveraging economies of scale and a common network to introduce large-scale solutions
 - Established in September 2021, founding members include Sentosa Development Corporation, Amara Sanctuary Resort Sentosa, Capella Hotel Singapore, C Side (Bikini Bar, Coastes and Sand Bar), Far East Hospitality Management Singapore, FOC Sentosa, Madame Tussauds Singapore, Mount Faber Leisure, Ola Beach Club, Resorts World Sentosa, Rumours Beach Club, Sentosa Golf Club, Scentopia, Shangri-La Rasa Sentosa, Siloso Beach Resort, Tanjong Beach Club, and W Singapore-Sentosa Cove
 - Solutions being studied by the SCNN include:
 - Development of green MICE offerings
 - Development of sustainable events
 - Guidelines for reducing disposables
 - Development of guidelines for increasing the use of locally-sourced produce across Sentosa's hotels and restaurants, in collaboration with the Singapore Food Agency (SFA).

B. Become a globally recognised, certified sustainable tourism destination

B1. Robust Sustainable Tourism Offerings

- Launch sustainability-themed tours to increase the appreciation and importance of nature, biodiversity, and heritage. The first of these tours will begin in December 2021
- With Sentosa as a gateway to the Southern Islands archipelago, launch low-carbon leisure experiences in the Southern Islands in 2022
 - In the fourth quarter of 2021, SDC will begin offering ferry services via a new jetty at Sentosa Cove Village, to extend the Sentosa getaway to its neighbouring islands, offering Sentosa's guests a broader eco-destination
 - Also available from 2022 will be 'off-grid' rustic getaway experiences away from the hustle and bustle of the city, such as accommodation options and bicycle rentals

<p>A2. Harnessing Renewable Energy</p> <ul style="list-style-type: none"> • Implement new infrastructure solutions for carbon mitigation, in particular solutions to harness renewable energy. Examples include technological sustainability solutions, e.g: <ul style="list-style-type: none"> ○ Waste-to-Energy systems: Introduction of innovative waste-to-energy gasification systems to transform horticultural waste into synthetic gas as a low-emission fuel to generate electricity ○ Renewable Energy: Harnessing of solar and tidal energy at underutilised locations, such as unused sea and terrestrial spaces around Sentosa 	<p>B2. Greening Businesses and Guest Experiences</p> <ul style="list-style-type: none"> • Roll out guidelines to encourage all Sentosa businesses to strengthen their sustainability practice through initiatives, such as reducing disposables, increasing locally-sourced produce, and adopting renewable solutions by 2022 • Roll out publicity campaign to encourage the reduction of disposables in 2022, targeted at both guests and island businesses • Offer green options for MICE and wedding packages by 2022. Elements include electric guest transport, elimination of disposables, as well as locally-sourced food produce
<p>A3. Greening Transportation and Infrastructure</p> <ul style="list-style-type: none"> • Greening Sentosa’s transport fleet and encouraging sustainable transport solutions <ul style="list-style-type: none"> ○ 100% of Sentosa’s on-island public transportation will be electrified by 2025 ○ Electric buses to be progressively deployed from 2022 ○ Electric bus trial with ComfortDelGro Bus will begin in October 2021 ○ All SDC-owned carparks will be electric vehicle (EV) charging-enabled by 2030 • Greening infrastructure <ul style="list-style-type: none"> ○ All new SDC-owned buildings will be constructed to attain Green Mark Platinum (SLE) certification 	<p>B3. Achieving Global Accreditation</p> <ul style="list-style-type: none"> • Benchmark Sentosa’s offerings against international standards, such as that of the Global Sustainable Tourism Council’s (GSTC) • Sentosa targets to be certified by GSTC as a sustainable destination by its Golden Jubilee Year in 2022

Annex E

Building on Sentosa's past sustainability successes

SDC's commitment to ensuring a Sustainable Sentosa has long been an important pillar in the development of Sentosa. Over the years, a variety of sustainability initiatives have provided building blocks for the refreshed Sustainable Sentosa strategic roadmap:

Electrifying modes of transport

- Both the Mount Faber and Sentosa Cable Car lines have been electric since their inception. Each cable car cabin along the Mount Faber line is also fitted with a solar panel that functions as a back-up energy source to extend the operations of in-cabin facilities.
- Sentosa's beach shuttles have been fully electric since 2020, with electric car-sharing also available in SDC's carparks since 2019 in partnership with BlueSG. In line with other train systems in Singapore, the Sentosa Express is also fully electric.
- Public trials of autonomous electric shuttle buses were conducted from August to November 2019, in collaboration with the Ministry of Transport and ST Engineering.

Exploring Green Buildings and Renewable Technology

- A variety of buildings in Sentosa have been certified Green Mark Platinum, including the Sentosa Golf Club clubhouse, the Palawan Kidz City building, Resorts World Sentosa Convention Centre, and Maritime Experiential Museum.
- Tidal turbines have been trialled at the Sentosa Boardwalk for energy generation since 2019.

Carbon neutralisation and waste reduction efforts

- Sentosa Golf Club has launched carbon-free rounds of golf⁵
- Introduction of Singapore's first carbon neutral beer, Islander Brew, in collaboration with local brewery Brewerkz
- Single-use plastics have also been eliminated at selected establishments in Sentosa, including Resorts World Sentosa, Mount Faber Leisure and Sentosa Golf Club.

⁵ Contributions from golf rounds from May 2021 to April 2022 will go towards the purchase of certified carbon offsets through regional Forestry or Blue Carbon projects that will sequester atmospheric carbon while defending against deforestation and fostering conservation of forests, mangroves and reefs.