

**SINGAPORE  
PACKAGING  
AGREEMENT**

# **AWARDS**

**2019**

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# Foreword

2019 has been designated as Singapore's Year Towards Zero Waste. This is done with the clear intent to raise awareness of how we can better conserve precious resources and build a strong culture in reducing, reusing and recycling waste. I am pleased to share that the Singapore Packaging Agreement (SPA) has been a key initiative contributing to the nation's efforts towards zero waste since 2007, achieving a cumulative reduction of about 54,000 tonnes of packaging waste over the past 12 years. All the parties to the SPA from the industry, government and non-governmental organisations, to this day, remain committed to doing our part to protect the environment.

Over the past year, the SPA has been profiled at many key industry events such as the CleanEnviro Summit Singapore (CESS) 2018, Packaging and Converting Executive (PACE) Forum, Sustainable Tourism Asia, Packaging Council of Singapore (PCS) Packaging Conference, Singapore Environment Council (SEC) Conference Day and Sustainable Foods Summit. As a result, more companies from various sectors, ranging from logistics, fast-moving consumer goods to fast food and hospitality, have joined the SPA as new signatories. We have about 240 signatories to date.

The SPA Governing Board has also worked closely with the National Environment Agency (NEA) to develop the mandatory packaging reporting framework, which will be implemented in 2020. Together with the NEA, we had organised industry engagement sessions between September 2018 and March 2019, engaging over 200 representatives from more than 100 organisations. Besides soliciting feedback and co-creating solutions with the industry to support companies in complying with the new mandatory packaging reporting requirements, these sessions were held with the 17<sup>th</sup> and 18<sup>th</sup> CEOs' Luncheons

to promote the SPA and facilitate the sharing of packaging-related developments and programmes.

At the SPA Awards 2019 presentation ceremony on 17 July 2019, we will recognise 19 signatories for their efforts in reducing, reusing and recycling packaging waste. Among the winners are new signatories who had joined the SPA within the last 2 years. These include Denis Asia Pacific, Guava Amenities, Resorts World Sentosa, SG Hotels (Six Senses Singapore), Sheng Siong Supermarket, WestRock Singapore and Wildlife Reserves Singapore, which have gone on to introduce initiatives in reducing, reusing and recycling packaging waste through packaging redesign, improving waste management system and promoting the 3Rs. I congratulate this year's winners and commend them for their efforts to reduce waste.

While the journey towards zero waste may not be an easy one, there are many potential benefits to be reaped. I urge all companies that are not yet signatories to come forward and join us in this journey. Together, we can build a more sustainable Singapore and move one step closer to our goal of becoming a Zero Waste Nation.



**Mr Albert Lim**  
Outgoing Chairman,  
Singapore Packaging Agreement  
Governing Board



# Introduction

Introduced in 2007, the Singapore Packaging Agreement (SPA) is a joint initiative by the government, industry and non-government organisations (NGOs) to manage packaging waste, which constitutes about one-third of domestic waste disposed of by weight. The SPA aims to encourage businesses to review their packaging designs and practices to see if they can reduce their use of packaging resources, and adopt more sustainable practices in packaging waste management.

Through the 3Rs (reducing, reusing and recycling) of packaging waste, signatories are also able to benefit from potential cost savings while meeting the increasing demand for sustainable products. Over the past 12 years, the SPA signatories have achieved a cumulative reduction of about 54,000 tonnes of packaging waste and saved an estimated \$130 million in material costs in the process. The implementation of the SPA is overseen and driven by an SPA Governing Board, comprising senior representatives from industry, government and NGOs. The members of the Governing Board are listed in the Annex.

One of the key initiatives under the SPA to encourage signatories to play an active role in reducing, reusing or recycling packaging waste is the annual SPA Awards (formerly known as the 3R Packaging Awards). The SPA Awards serve to recognise signatories who have made notable achievements in reducing packaging waste. There are

three tiers under the Awards framework with the Merit Award at the base, followed by the mid-tier Excellence Award and the highest-tier Top Achievement Award which is conferred on the best performers of the year in terms of packaging waste reduction, reuse or recycling.

This booklet features the achievements of the signatories who will receive the SPA Awards this year from Dr Amy Khor, Senior Minister of State for the Environment and Water Resources, on 17 July 2019 during the Partners for the Environment Forum 2019 at Sands Expo & Convention Centre.



# Top Achievement

AWARD WINNER

## Resorts World Sentosa

### About the Company

As one of Asia's largest integrated resort destinations, Resorts World Sentosa is committed to improving the economic, environmental and social well-being of the community through sustainable business operations. Since the publication of its first Sustainability Report in 2013, Resorts World Sentosa has made significant achievements in its environmental, social and governance targets and will continue to strive for better sustainability outcomes in tandem with the Sustainable Singapore Blueprint.



RWS's hotels provide refillable carafes in each room

### Measures to Reduce Packaging Waste

Since February 2019, Resorts World Sentosa (RWS) has stopped providing plastic bottles used for water and soft drinks at its five themed attractions, including Universal Studios Singapore (USS) and S.E.A. Aquarium, dining establishments such as celebrity chef restaurants and Malaysian Food Street, MICE events and across all of its six hotels.

RWS's six hotels, which previously provided complimentary bottled water, now offer more sustainable options for drinking water. These include refillable carafes in each room as well as newly-installed water stations on every floor for ease of hydration. The initiative extends to MICE events, where guests are now served fresh fruit-infused water dispensed from filtered pitchers instead of bottled water.

Annually, the initiative is expected to save about 131.21 tonnes of packaging waste, from both plastic bottles and carton boxes used to transport these bottles.



All of Resorts World Sentosa's six hotels now provide refillable carafes in each room as well as water stations on every floor.



Water dispensers during MICE events at Resorts World Convention Centre

# Top Achievement

AWARD WINNER 

## Resorts World Sentosa

Since December 2018, RWS introduced reusable tumblers which also function as take-home souvenirs at USS. By cutting down on disposable cups, about 7.12 tonnes of paper packaging waste could be avoided annually.



Reusable take-home tumblers for beverages at Universal Studios Singapore

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Over at its hotels, RWS has reduced the use of plastic packaging for its slippers. Since May 2018, each set of slippers is fastened together with a paper strip and various sets are then bagged in bulk for transportation. RWS also extended the bulk packing approach for retail merchandise such as towels and small plush toys. In total, the initiative allows RWS to reduce about 0.91 tonne of plastic packaging waste annually.



Old practice of individually packed slippers with plastic packaging

Improved practice of using lighter paper strips to fasten together slippers and bulk packaging for transportation



### OTHER ENVIRONMENTAL INITIATIVES

To raise the awareness on environmental sustainability, RWS has removed desk-side bins within the offices of its attractions to encourage staff to be aware of the waste they dispose of and to encourage proper recycling habits. RWS has also started sending its e-waste as well as worn-out distribution and storage systems such as metal shelves for recycling instead of disposing them.

As of 1 October 2018, RWS has stopped providing plastic straws across its five themed attractions, including USS and S.E.A. Aquarium, as well as dining establishments such as celebrity chef restaurants and Malaysian Food Street. The move to go straw-less across RWS will eliminate more than three million straws a year (approximately 1.12 tonnes of straws and 0.19 tonne of packaging of the straws), helping to conserve resources.

Paper straws are available upon request, and for guests with disabilities or special needs who require straws as an accessible way to consume drinks.

# Top Achievement

AWARD WINNER\*

## Greenpac (S) Pte Ltd

### About the Company

Established in 2002, Greenpac (S) Pte Ltd is a home-grown company with the mission of helping its clients in achieving innovative and environmentally-sustainable packaging. Having been in the industry for close to 17 years, the company has been a green advocate promoting sustainable practices and is committed to conducting its business in an environmentally responsible manner such as efficient use of packaging materials.

### Measure to Reduce Packaging Waste

In August 2018, Greenpac introduced an improved packaging for one of its clients to transport highly sensitive semiconductor fabricating equipment. This improvement was done through reducing the overall packaging size which resulted in the use of less packaging materials while maintaining the integrity of the packaging to protect the equipment. The weight of each packaging was reduced from 144kg to 113kg. Not only is the new packaging lighter, it is also more compact leading to lower freight costs. Through this initiative, it is estimated that Greenpac can avoid 62 tonnes of packaging waste per year.

OLD



Old and heavier packaging mainly made of wood

NEW



Improved and lighter packaging made of plywood, carton and foam



#### OTHER ENVIRONMENTAL INITIATIVE

Apart from reducing packaging waste, Greenpac organises a "Learning Journey" that aims to increase general awareness on packaging reduction. In 2018, Greenpac has engaged 420 participants from a wide audience group including corporates and educational institutions.

# Top Achievement

AWARD WINNER★

## SG Hotels Pte Ltd (Six Senses Singapore)

### About the Company

Two hotels under SG Hotels Pte Ltd in Singapore are managed by Six Senses Hotels Resorts Spas which are Six Senses Duxton and Six Senses Maxwell. The two hotels are an easy walk apart, so guests could enjoy all amenities of both hotels as well as the eclectic local community in between. Six Senses Singapore is continually developing new initiatives and procedures to minimise its impact on the environment, and its commitment to the environment and sustainability begins with waste management.

### Measures to Reduce and Recycle Waste (including Packaging Waste)

As part of its efforts to reduce packaging waste, Six Senses Singapore worked with its suppliers to replace single-use paper trays for eggs and foam boxes for seafood with reusable plastic trays and containers respectively. Introduced in October 2018, this initiative could reduce 0.42 tonne of packaging waste annually.



Reusable plastic tray for eggs



Reusable cooler box for seafood

Six Senses Singapore has also implemented various programmes and set up infrastructure to facilitate recycling, including for packaging waste, at its offices. In October 2018, recycling receptacles were set up in back of house areas such as offices and kitchens. It is estimated that 10.35 tonnes of recyclables, including packaging, could be collected for recycling annually. In addition, Six Senses Singapore implemented in-house recycling programme for e-waste, used lightbulbs, Nespresso capsules and pens in July 2018. This has allowed an additional 0.10 tonne of recyclables to be collected each year.

# Top Achievement

AWARD WINNER\*

## SG Hotels Pte Ltd (Six Senses Singapore)

In February 2019, Six Senses Singapore introduced on-site composting and started giving out food waste generated from the hotel kitchens to urban farms and it is estimated that about 1.20 tonnes of food waste is diverted away from waste disposal facilities annually.

In another initiative, Six Senses Singapore sent used coffee ground to urban farmers for composting and giving about 1.45 tonnes of coffee ground a second life annually. Six Senses Singapore also started donating used soap from guest rooms to social enterprise, Clean the World Asia. The used soap is then recycled into new soap bar for underprivileged children and about 21.36kg of used soap could be recycled each year through this initiative.



### OTHER ENVIRONMENTAL INITIATIVES

Within its own organisation, Six Senses Singapore organised a series of activities to educate its employees about the importance of waste minimisation, such as intertidal walk, coastal clean-up and site visits to waste management facilities. A Zero Waste Challenge was also organised for its staff in July 2018, where all non-recyclable waste had to go into their personal glass jar. This has helped to raise awareness about the amount of waste disposed of by each staff, and also encouraged them to think about ways to reduce waste.

Besides reaching out to its staff, Six Senses Singapore also shared about sustainable operations in hotels, such as its initiative on using reusable packaging for supplies of eggs and seafood with students from Temasek Polytechnic and Singapore Polytechnic and hotel industry.

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Recycling receptacles in offices



Zero Waste Challenge for staff

# Excellence

AWARD WINNER 

## Coca-Cola Singapore Beverages Pte Ltd

### About the Company

Coca-Cola Singapore Beverages Pte Ltd (CCSB) is a wholly owned and operated subsidiary of The Coca-Cola Company. The company distributes a wide range of beverages including sparkling beverages (Coca-Cola, Fanta, Sprite, A&W, and Schweppes), juice drinks (Minute Maid and Qoo), isotonic drinks (Aquarius), teas (Authentic Tea House and Heaven & Earth), coffee (Georgia) and water (Dasani, Glaceau Vitamin Water).

As part of Coca-Cola's World Without Waste initiative, the company has been looking into ways to reduce, reuse and recycle packaging waste and is committed to reducing the impact of packaging waste on the environment. Coca-Cola has been partnering with key stakeholders and developing more complete data and metrics to achieve more sustainable packaging.

### Measures to Reduce Packaging Waste

CCSB has implemented two new initiatives over the past year to reduce packaging waste after changing its production processes.

In June 2018, CCSB reduced the weight of the polyethylene terephthalate (PET) bottles of its still beverages. The weight of its 500ml bottle was reduced by 12% from 26.5g to 23.2g while the weight of its 1500ml bottle was reduced by 4% from 56g to 53.5g. This has allowed the company to cut down on 28 tonnes of plastic packaging each year.

In addition, CCSB reduced the thickness of the aluminium cans for its 320ml canned sparkling beverages from 0.270 mm to 0.245 mm in 2018. As a result, the weight of each can was reduced from 10.7g to 9.5g. This translated into reduction of aluminium packaging of 170 tonnes annually.



Still beverage in 500ml bottle and sparkling beverage in 320ml can with lighter packaging

# Excellence

AWARD WINNER 

## Nestlé Singapore (Pte) Ltd

### About the Company

From a humble beginning in 1867, Nestlé has since grown to become the largest food and beverage company in the world, with its headquarters in Vevey, Switzerland. Nestle's range of products in Singapore includes MILO®, NESCAFÉ®, MAGGI®, NESTLÉ®, NESVITA OMEGA PLUS ACTICOL, KIT KAT®, PURINA®, FRISKIES® and dozens of other trusted brands that are household names and market leaders in their product categories.

### Measures to Reduce Packaging Waste

From January to August 2018, Nestlé studied the feasibility of using bulk bags of larger capacity to contain sugar, in order to reduce the use of packaging materials. This included finding a suitable bulk bag that is compatible with the existing tipping station used to unload the sugar required for manufacturing of products. After several rounds of trial, a bulk bag made of polypropylene (PP) with capacity of 1000kg was selected, replacing the 600kg capacity PP bag used previously. This initiative allowed Nestlé to reduce 2.79 tonnes of plastic packaging material annually.

OLD



600kg capacity PP bag

NEW



1000kg capacity PP bag

In another initiative, Nestlé established a segregation system for bulk PP bags used for coffee powder, cocoa powder, creamer, sugar and malted barley. Instead of disposing them, these bulk bags were sent for reuse through its waste collectors. As a result, Nestlé estimated that about 4.41 tonnes of plastic packaging waste could be avoided annually.



#### OTHER ENVIRONMENTAL INITIATIVE

Since July 2018, Nestlé sent metal square bars, which were used to support the malted barley bulk liner in the containers, for recycling instead of disposing them. It is estimated that about 24 tonnes of waste could be recycled annually through this initiative.

# Excellence

AWARD WINNER ★

## Sheng Siong Supermarket Pte Ltd

### About the Company

Sheng Siong Supermarket Pte Ltd (Sheng Siong), a subsidiary of Sheng Siong Group Ltd, is an operator of local supermarket chain with retail stores primarily located in the heartlands of Singapore. Sheng Siong provides its customers with a wide assortment of live, fresh and chilled produce, packaged food products as well as general merchandise such as toiletries and essential household products. Sheng Siong also has 18 house brands, with over 1200 products, ranging from food products to paper goods.

### Measure to Reduce Packaging Waste

In September 2018, Sheng Siong adopted a new assisted pallet wrapping system using a handheld tool. Besides lightening the workload of its staff, the system helped to optimise the use of stretch film which is also lighter as compared to the stretch film used previously. The net weight of the new stretch film is 1.38kg per roll, which is 1.12kg lighter than the old stretch film weighing 2.5kg per roll used with the fully manual pallet wrapping system. With the reduction in the amount of stretch film used, it is estimated that about 36.72 tonnes of plastic packaging could be avoided annually.

OLD



Fully manual pallet wrapping system

NEW



Assisted pallet wrapping system using a handheld tool

### OTHER ENVIRONMENTAL INITIATIVES

To reduce the use of single-use carrier bags, Sheng Siong took part in the "One Less Plastic" campaign organised by the Singapore Environment Council, which lasted from 12 December 2018 to 3 March 2019. Under the campaign, shoppers could redeem a reusable bag during the roadshows at four of Sheng Siong's supermarket stores when they spend a minimum of \$50 in a single receipt. In all, Sheng Siong distributed 12,000 bags between 15 December 2018 and 3 February 2019.

In another initiative, Sheng Siong segregated food waste generated at its headquarters and stores for recycling using a food waste compactor installed at its headquarters. The compacted food waste is then sent to be co-digested with used water sludge at Ulu Pandan Water Reclamation Plant for biogas generation.

# Excellence

AWARD WINNER 

## Ha Li Fa Pte Ltd

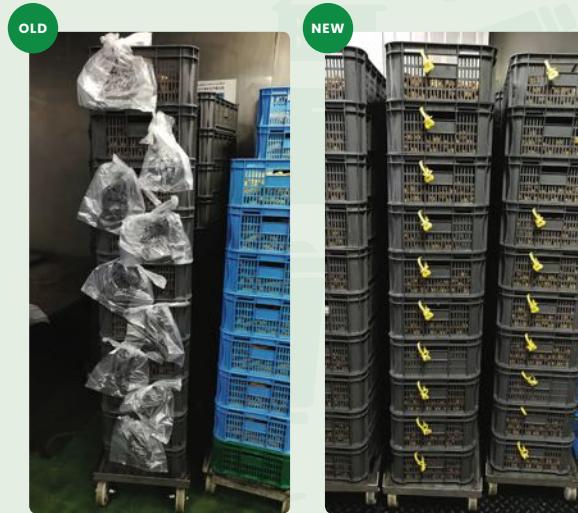
### About the Company

Ha Li Fa Pte Ltd is a family business that was founded in 1987 and has over the years grown from humble beginnings to a manufacturer and distributor of a variety of products, including seafood-based products, chicken sausages and meat balls products. Famous for its "BoBo" brand, the company is committed to deliver delicious and premium quality products in both local and international markets.

### Measures to Reduce Packaging Waste

Since September 2018, Ha Li Fa dispensed the use of single-use plastic bags and switched to reusable plastic ties to mark plastic crates which were used to store chicken meat balls prior to packing. In addition, different colour reusable plastic ties were used to help in identifying different fillings of the chicken meat balls. Through this initiative, the company is estimated to avoid 0.18 tonne of plastic packaging in a year, which will translate to material cost savings of about \$600 annually.

In another initiative, Ha Li Fa supplied carton boxes, which came with the raw materials used in its production, for reuse by the tenants of its affiliates for the transportation of their goods. This provided a second lease of life for these carton boxes before being recycled which was the previous practice. By reusing these carton boxes, it is estimated that 9.18 tonnes of paper packaging is avoided annually as the tenants need not purchase new carton boxes to transport their goods.



Switched from the use of single-use plastic bags (left) to reusable plastic ties (right) to mark plastic crates for chicken meat balls prior to packing



Reuse of carton boxes for transportation of goods

## Asia Pacific Breweries (Singapore) Pte Ltd

### About the Company

Asia Pacific Breweries Singapore (APB Singapore) is home to the world-acclaimed Tiger Beer – an iconic Singapore brand born and brewed on local soil since 1932. Tiger Beer is now available in more than 75 markets around the world. In addition to Tiger Beer, APB Singapore's portfolio of beers includes ABC Stout, Anchor Beer, Baron's Strong Brew, Guinness, Heineken and the range of Archipelago craft beers.

As a member of the HEINEKEN Group, APB Singapore's 'Brewing a Better World' sustainability strategy is embedded in the way it does business and focuses on the areas where it can make the greatest difference. It ensures that they deliver positive sustainability impact throughout their value chain. APB Singapore has been Brewing a Better World since 2008, creating shared value for people and planet to drive prosperity.

### Measure to Reduce Packaging Waste

Since 2010, APB Singapore has been redesigning its aluminium cans to reduce the use of packaging material.

In February 2019, the company optimised the packaging of its 330ml aluminium sleek cans for Tiger and Heineken by reducing the thickness of the base from 0.270mm to 0.245mm. This is a further reduction done in 2015 from 0.275mm to 0.270mm. The reduction in thickness of the base of the



330ml Tiger and Heineken Sleek aluminium cans with reduced thickness for the base



### OTHER ENVIRONMENTAL INITIATIVE

In August 2018, APB Singapore organised a sustainability-themed pop-up bar event with fixtures made from used crates and kegs. Through this event, APB Singapore was able to reach out to over 1,000 participants on recycling. Visitors who recycled drinks bottles or cans were rewarded with a free bottle of beer in return.

aluminium cans resulted in a 10% and 8% reduction in weight of the 330ml-aluminium sleek cans for Tiger and Heineken respectively. This translated into 25.09 tonnes of packaging material saved annually.

## Charoen Pokphand Intertrade Singapore (Pte) Ltd

### About the Company

Charoen Pokphand (CP) Intertrade Singapore (Pte) Ltd is a subsidiary of one of Asia's leading agro-industrial and food conglomerates, Charoen Pokphand Foods Public Company Limited. The company leverages upon its expertise in the agro and food industry to expand its business and is dedicated to provide high quality, nutritious, hygienic and safe products to the consumers.

In Singapore, CP Intertrade brings in various ready-to-eat products such as frozen chicken and prawn products through multiple channels including supermarkets, hypermarkets as well as major online platforms. CP has constantly developed new delectable cuisine for consumers who appreciate quality food at their convenience.

### Measure to Reduce Packaging Waste

In July 2018, CP Intertrade reduced the dimensions of the carton boxes for its gyoza products from 424mm x 332mm x 245mm to 400mm x 300mm x 272mm, and dispensed with the use of partitions within the boxes. By doing so, the overall weight of each carton box was reduced by 384g from 776g to 392g. The company is expected to be able to save 3.51 tonnes of paper packaging annually through this initiative. By using smaller boxes, CP Intertrade was able to reap other benefits such as increasing the number of carton boxes loaded onto shipping containers by about 6%, thereby improving supply chain efficiency while reducing transportation and handling costs.



Revamped carton box with reduced dimensions and without cardboard partitions

## Denis Asia Pacific Pte Ltd

### About the Company

Established in 1892, Denis Asia Pacific Pte Ltd is amongst the oldest food companies in Singapore, marketing famous trademarks like Ayam Brand™ or Alce Nero™. The company aims to meet essential human needs on a profitable and sustainable basis. Denis Asia Pacific's journey towards sustainability started in 2011 with sustainable manufacturing as one of its strategies to deliver long term value while conserving the use of resources.

As a member of UN Global Compact Network in 2016, Denis Asia Pacific has pledged to incorporate the 10 Principles of United Nation Global Compact in its company governance including reducing waste.

## F&N Foods Pte Ltd

### About the Company

Established in 1883, Fraser and Neave, Limited (F&N) has been quenching the thirst of generations of consumers and is one of the key players in the food and beverage arena in Singapore and Malaysia.

F&N Foods Pte Ltd, a wholly-owned subsidiary of F&N, is a leading food and beverage company in Singapore, producing a wide range of consumer products such as 100PLUS isotonic drinks, F&N MAGNOLIA milk, F&N FRUIT TREE juices, F&N NUTRISOY soya milk, F&N SEASONS Asian-inspired drinks and teas. Committed to meeting the health and wellness needs of consumers in the region and across the world, F&N Foods is driven by its overarching philosophy of Pure Enjoyment, Pure Goodness.

### Measures to Reduce Packaging Waste

Since May 2018, Denis Asia Pacific has been using carton boxes with less packaging material for delivery of its products including Ayam Brand™ canned sardines, mackerel and peas. This has allowed the company to reduce 1.63 tonnes of paper packaging each year.

In another initiative, Denis Asia Pacific replaced the use of strapping bands made of polyethylene terephthalate (PET) which were heavier with lighter biaxially-oriented polypropylene (BOPP) tape used in securing of the carton boxes filled with goods for delivery. The company also further reduced the width of the tape from 48mm to 36mm. These changes have



Switched from heavier strapping bands made of PET (left) with tape made of BOPP (right) used in transport packaging to secure goods

resulted in the annual reduction of 0.25 tonne of packaging material used to secure goods for transportation.

### Measures to Reduce Packaging Waste

In February 2019, F&N Foods reduced the weight of its 1-litre beverage carton for Fruit Tree Fresh Sugarless Apple Juice by removing the inner aluminium layer without compromising the integrity of the packaging and quality of the product. This initiative is expected to allow F&N Foods to reduce 0.43 tonne of aluminium packaging material per year, with associated material cost savings of \$8,000.

In another initiative implemented in July 2018, the company redesigned the bottle caps for its 250ml Fruit Tree Fresh Juice after reviewing the capping process. This resulted in lower incidences of capping defects and less rejected finished products due to the capping process. F&N Foods estimates that it will be able to reduce 2 tonnes of plastic packaging per year, translating to material cost savings of \$20,000 annually.



Old beverage carton with inner aluminium layer  
New beverage carton with inner aluminium layer removed without affecting integrity of packaging



### OTHER ENVIRONMENTAL INITIATIVE

To raise the awareness of the importance of sustainable packaging waste management, F&N Foods supported upcycling workshops held at St. Gabriel Secondary School in April and May 2018. Through this initiative, about 40 students learnt about creating usable items such as baskets from defective packaging materials.

## Hewlett Packard Enterprise

### About the Company

With a manufacturing facility and its Asia Pacific and Japan regional headquarter in Singapore, Hewlett Packard Enterprise (HPE) offers business information technology products, solutions and services. The company strives to deliver business solutions to its clients leveraging on technology to turn their ideas into value, transforming industries, markets and lives while committing to corporate citizenship, social responsibility and sustainability.

### Measures to Reduce Packaging Waste

Throughout 2018, HPE worked closely with its packaging providers to reduce the packaging materials used in its six products including BCS memory kit, DL20 Gen 9/10, DL360 Gen 10 servers, 2-stick and 4-stick dual in-line memory module. The reduction was achieved through optimisation of the packaging by reducing the dimensions and using lighter materials. Through the packaging redesign, the weight of each packaging was reduced by between 38% and 80%.

As a result of these initiatives, HPE is expected to be able to achieve a total reduction of about 4.59 tonnes of packaging materials a year and achieving \$41,500 in material cost savings annually. Besides reducing packaging waste, HPE was able to reap benefits from reduced manufacturing time.



Old packaging for HPE DL20 Gen 9 server weighing 998g



Redesigned packaging for HPE DL20 Gen 9 server weighing 443g, which is 555g lighter

## Toshiba Data Dynamics Pte Ltd

### About the Company

Toshiba Data Dynamics Pte Ltd is Singapore's official distributor of Toshiba communication and IT products manufactured by Toshiba Corporation. The company has grown to be one of the renowned telecommunications and IT companies in Singapore. Toshiba Data Dynamics is committed in fostering lasting relationships with its clients, based on trust and on the confidence that the company delivers on its promises every time.

### Measure to Reduce Packaging Waste

Since March 2018, Toshiba Data Dynamics has been regularly sending its used wooden pallets that were still in good condition to Wow Kampung, a non-governmental organisation (NGO), instead of disposing them. Wow Kampung uses the wooden pallets for its woodworking workshop to educate children on the importance of creating a sustainable future through the 3Rs and upcycling of used wooden pallets into artwork. Through this initiative, the company could reuse about 3.15 tonnes of wooden packaging annually.



Wooden pallets (left) upcycled and made into artwork (right) instead of disposing them

## Unilever Singapore Pte Ltd

### About the Company

Unilever is a multi-national consumer goods company selling many household brands including Dove, Cif, Sunsilk, Persil, Knorr, Wall's and Lipton. The company aims to make sustainable living commonplace, and has been constantly looking to reduce the environment impacts of its business. Through the Unilever Sustainable Living Plan, it hopes to decouple its environmental footprint from its growth and increase its positive social impact. One of Unilever's goals under the plan is to reduce its environmental impact by half through measures such as reducing packaging use, increasing recycling of post-consumer packaging, and having more recycled content used in its packaging.

### Measure to Reduce Packaging Waste

In July 2018, Unilever Singapore embarked on the redesign of its Breeze liquid detergent plastic bottles to reduce the use of packaging materials. The redesign was completed in December 2018, and the weight of each bottle was reduced by about 9% from 225g to 205g. Through this initiative, Unilever Singapore estimated that 9.4 tonnes of plastic packaging waste could be avoided and material cost savings of \$20,143 could be achieved annually.



## WestRock Singapore Pte Ltd

### About the Company

WestRock Singapore Pte Ltd is a subsidiary of US-based WestRock, a packaging supplier with more than 320 manufacturing facilities, design centres, research labs, and sales offices around the world. Its products include containerboard, folding cartons, paperboard and partitions and protective packaging. WestRock's sustainability platform is built on three pillars – People, Planet and Performance. Through investment in its workforce and its communities, acting responsibly with regard to the environment, and delivering strong financial results and innovative packaging solutions for its customers, WestRock aims to become more sustainable in its business.

### Measure to Reduce Packaging Waste

To support its customer's goal to reduce the use of packaging materials, WestRock Singapore designed a lighter food tray made of paperboard and coated with polyethylene terephthalate (PET) for ready-to-eat meals which was launched in March 2018. Compared to the old food tray made of polypropylene (PP) which weighed 20.0g each, the new tray was 0.7g or 4% lighter. It is estimated that this measure would help reduce the use of up to 1.8 tonnes of packaging materials annually.



## Wildlife Reserves Singapore Pte Ltd

### About the Company

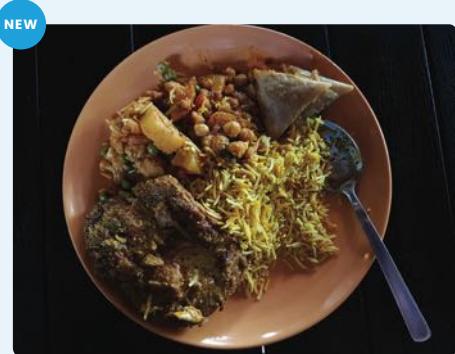
Wildlife Reserves Singapore (WRS) is dedicated to the management of world-leading zoological institutions - Jurong Bird Park, Night Safari, River Safari and Singapore Zoo, and aims to inspire people to value and conserve biodiversity by providing meaningful and memorable wildlife experiences.

### Measure to Reduce Packaging Waste

Since February 2019, WRS has ceased the provision of single-use paper boxes for staff lunch takeaways for corporate staff. The materialisation of the initiative was primarily the result of strong management and staff support. To facilitate the transition, the implementation of the new policy was communicated internally one month prior to its inception to help staff in adjusting to the new initiative. WRS estimates that in implementing this initiative, about 0.13 tonne of paper packaging waste will be avoided annually.



Discontinuation of single-use paper boxes for takeaway staff lunch for corporate staff



Only reusables are used for staff lunch for corporate staff

## Wildlife Reserves Singapore Pte Ltd

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### OTHER ENVIRONMENTAL INITIATIVES

Building on the previous year's "Deadliest Monster" campaign, WRS introduced the "Fight the Deadliest Monster" campaign in October 2018. Through the campaign, WRS continued to encourage visitors to reduce plastic waste generation in their daily lives by using reusable bottles, containers and bags instead. The campaign reached out to more than 277,000 visitors at Jurong Bird Park, River Safari and Singapore Zoo. In addition to River Safari, WRS also extended the incorporation of 3R elements to the animal shows in Jurong Bird Park and Singapore Zoo.



"Fight the Deadliest Monster" Campaign



Furthermore, WRS conducted frequent outreach activities at schools and community events, educating the public about the impacts of plastic waste on wildlife and how they can reduce their consumption of single-use plastics. WRS also worked with Temasek Polytechnic to organise a Sustainability Design Competition in 2018, which was aimed at spurring youths to innovate solutions to reduce the use of disposables.

Internally, WRS conducted a range of in-house activities to rally employees towards reducing waste. These included a "Bring Your Own Cup" incentive programme at selected food & beverages outlets within Jurong Bird Park, Night Safari, River Safari and Singapore Zoo as well as upcycling workshops aimed at teaching staff to create animal enrichment tools and other items from used packaging. In April 2018, WRS also increased the number of recycling bins placed within its offices, pantries and back-of-house rest areas to make recycling more convenient for its employees.

## Australian Fruit Juice (S) Pte Ltd

### About the Company

Established in 1973, Australian Fruit Juice (S) Pte Ltd (AFJ) manufactures and supplies fruit juices, purees, concentrates and cordials. Sole owner of the brand name "RIPE", AFJ supplies to a wide range of industry including airlines, bars, cafes, hotels, supermarkets and restaurants.

### Measures to Reduce Packaging Waste

In February 2019, AFJ found a way to reduce the amount of packaging material used by reusing cardboard partitions which came with the supplies by its vendors. These cardboard partitions were reused as protective layer pads for delivery of its goods. This allowed the company to dispense the need to purchase new protective layer pads and avoid 4.57 tonnes of paper packaging material a year while reaping in annual cost savings of \$7,800.

In another initiative, AFJ changed the cluster packaging for its fruit juices in plastic bottles, from paper carton to plastic bag made of recyclable high-density polyethylene (HDPE) supplied to some of its customers. This resulted in a significant weight reduction of the packaging from 80g to 16.2g per piece, resulting in the avoidance of 4.59 tonnes of packaging per year which translated to annual cost savings of \$11,500.



Cardboard partitions are reformed and reused as protective layer pads for delivery of goods

## Guava Amenities Pte Ltd

### About the Company

Established in 2004, Guava Amenities has grown to become one of Singapore's leading providers of guest amenities for the hospitality sector. The company offers comprehensive solutions to help its clients and partners to demonstrate their commitment towards sustainability through careful design and selection of materials to be used. By taking pride in conducting its business in an ethical manner and aligning with the needs of its clients, the distribution footprint of Guava Amenities now covers over 25 countries.

### Measures to Reduce Packaging Waste

Liquid products, such as soap and shampoo, supplied by Guava Amenities were previously packed in plastic bottles made of high-density polyethylene (HDPE). In June 2018, the company reduced the amount of packaging used for these liquid products by switching to lighter collapsible pouches made of medium-density polyethylene (MDPE). This has helped Guava Amenities to avoid 2.7 tonnes of plastic packaging waste annually.

In another initiative, the company switched to lighter paper strips from plastic packaging for packing of slippers supplied to hotels. By switching to lighter packaging, Guava Amenities estimated that about 0.2 tonne of packaging waste could be avoided in a year.



Switched from heavier bottles (left) to lighter collapsible pouches (right) for liquid products for hospitality establishments



#### OTHER ENVIRONMENTAL INITIATIVE

Guava Amenities actively encourages its clients to reduce packaging waste. For example, the company participated in the 3R Awards and Seminar for Hotels organised by the Singapore Hotel Association and National Environment Agency that was held on 19 September 2018, reaching out to over 100 participants on its packaging waste reduction initiatives.

## Sunfresh Singapore Pte Ltd

### About the Company

Beginning its business in 1982, Sunfresh Singapore Pte Ltd (Sunfresh) produces and sells blended fruit juices to airlines, retailers, hotels, restaurants and catering industries throughout the Asia-Pacific region. As one of the first few companies to pledge their support for the Singapore Packaging Agreement (SPA) since its inception in 2007, Sunfresh has been committed to sustainable practices in its business operations, including packaging waste reduction.

### Measure to Reduce Packaging Waste

Since its participation in the SPA programme in 2007, Sunfresh has introduced several initiatives to reduce packaging waste through light-weighting of its product packaging and optimising its production to reduce wastage.

In January 2019, Sunfresh switched the packaging for the 25kg additives used in producing reconstituted fruit juices from carton boxes to lighter, machine-sewn kraft paper bags. Through the use of lighter packaging material, it is estimated that about 0.22 tonne of paper packaging waste could be avoided annually.



Switched from carton boxes (left) to kraft paper bags (right) for 25kg additives



#### OTHER ENVIRONMENTAL INITIATIVES

To promote the SPA and importance of packaging waste reduction, Sunfresh included write-up on the SPA on its website which also has information on its initiatives in reducing packaging waste. In another initiative, Sunfresh printed the "Signatory of Singapore Packaging Agreement Logo" on its 1-litre orange juice products to profile SPA.

# Singapore Packaging Agreement Governing Board Members 12<sup>th</sup> Agreement Year (1 July 2018 to 30 June 2019)

## Chairman

**Mr Albert Lim**

Executive Director,  
Packagers Pte Ltd

## 1<sup>st</sup> Deputy Chairman

**Mr Michael Ho**

Vice Chairman,  
Waste Management & Recycling  
Association of Singapore  
(WMRAS)

## 2<sup>nd</sup> Deputy Chairman

**Mr Matt Kovac**

Executive Director,  
Food Industry Asia

## Members

**Ms Betty Tan, PBM**

Chairman, Packaging Council of Singapore

**Mr Wong Mong Hong**

Emeritus President, Singapore Food  
Manufacturers' Association

**Ms Lee Gee Chyn**

Vice-Chairman for Sub-Work Groups  
(Waste Management, War on Diabetes  
and Code of Advertising Practice),  
Singapore Manufacturing Federation

**Mr Rodney Goh Hui Kian**

President, Singapore Retail  
Liquor Shop Association

**Mr Sunny Koh, PBM**

Managing Director,  
Chinatown Food Corporation Pte Ltd

**Mr Teoh Eng Lim**

Head of Procurement – SIMA,  
Coca-Cola Singapore Beverages Pte Ltd

**Mr Goh Hock Huat**

President,  
CROWN Asia Pacific Holdings Pte Ltd

**Ms Soh Bee Lian**

Head of Sustainability,  
IKEA Southeast Asia

**Mr Sridhar Kandhadai**

Vice President (Procurement and Supply  
Chain), Marina Bay Sands Pte Ltd

**Mr Victor Chai**

Director (Grocery),  
NTUC Fairprice Co-operative Ltd

**Mr Tony Loke**

Executive Director, Prima Food Pte Ltd

**Mr John Mulcahy**

Principal Scientist, Procter & Gamble (P&G)  
International Operations SA Singapore Branch

**Ms Allison Lim**

Director, Public Affairs, Asia-Pacific,  
Tetra Pak South East Asia Pte Ltd

**Mr Ananda Ram Bhaskar**

Deputy Chief Executive Officer (Environmental  
Protection) and Director-General  
(Environmental Protection Division), National  
Environment Agency

**Mr Wilson Ang**

President, Environmental Challenge  
Organisation (Singapore)

**Dr Ryal Wun**

Deputy Executive Director and  
Legal Director, Global Compact  
Network Singapore (GCNS)

**Ms Jen Teo**

Executive Director,  
Singapore Environment Council (SEC)

**Ms Bernadette Roque**

Team Lead, Packaging Innovation,  
Food Innovation & Resource Centre (FIRC)

## Co-Opted Members

**Mr Eric Maurice Huber**

Consultant, Roastwerkz

**Dr Lee Hui Mien**

Team Lead, Vice President,  
Sustainable Solutions,  
Mandai Park Development Pte. Ltd.

**Mr Ong Lye Huat**

Regional Manager EHS (APAC),  
Microsoft Operations Pte Ltd

# Singapore Packaging Agreement Governing Board Members 13<sup>th</sup> Agreement Year (1 July 2019 to 30 June 2020)

## Chairman

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Vice Chairman,  
Waste Management & Recycling  
Association of Singapore  
(WMRAS)

## 1<sup>st</sup> Deputy Chairman

### Mr Albert Lim

Executive Director,  
Packagers Pte Ltd

## 2<sup>nd</sup> Deputy Chairman

### Ms Betty Tan, PBM

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Packaging Council of Singapore

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CROWN Asia Pacific Holdings Pte Ltd

### Ms Soh Bee Lian

Head of Sustainability,  
IKEA Southeast Asia

### Mr Sridhar Kandhadai

Vice President (Procurement and Supply  
Chain), Marina Bay Sands Pte Ltd

### Mr Victor Chai

Director, Product Division  
(FairPrice On-Line & Finest),  
NTUC Fairprice Co-operative Ltd

### Mr Tony Loke

Executive Director, Prima Food Pte Ltd

### Mr John Mulcahy

Principal Scientist, Procter & Gamble (P&G)  
International Operations SA Singapore Branch

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### Dr Lee Hui Mien

Vice President, Sustainable Solutions,  
Wildlife Reserves Singapore Pte Ltd

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Regional Manager EHS (APAC),  
Microsoft Operations Pte Ltd

# Form for Participation in the Second Singapore Packaging Agreement

I, (Name) \_\_\_\_\_, (Designation) \_\_\_\_\_

represent (Name of organisation/company) \_\_\_\_\_ in signing  
(Name of registered entity in Singapore)

the **Second Singapore Packaging Agreement (SPA)** which takes effect from 1 July 2012. I understand that by signing this form, I am agreeing to the commitments contained in the SPA (the main SPA commitments are stated on the back of this form).

**Signature:** \_\_\_\_\_

**Date Signed:** \_\_\_\_\_

**Contact no(s):** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Brand names covered by the organisation:** \_\_\_\_\_  
\_\_\_\_\_

**Main Products:** \_\_\_\_\_  
\_\_\_\_\_

**Main type(s) of packaging material used:** \_\_\_\_\_  
\_\_\_\_\_

## Nature of Business:

Manufacturing / Services / Others (please specify)\* \_\_\_\_\_

\*please delete accordingly

**Referred by:** \_\_\_\_\_  
\_\_\_\_\_

## Objectives of the Singapore Packaging Agreement

The objectives of this Packaging Agreement are to:

- i. reduce packaging waste arising from consumer products;
- ii. raise community awareness on packaging waste minimisation; and
- iii. introduce supply chain initiatives that foster the sustainable use of resources in packaging.

## Main Commitments

1. Work together with other signatories to meet the following targets:
  - a. a total annual reduction of 10,000 tonnes of packaging waste in 2020, with 2007 as the base year, and
  - b. bring on board a total of 400 signatories by 2020.
2. Contribute data on packaging materials consumed, packaging waste reduced and/or recycled, where available.
3. Follow the Singapore Environmental Code of Practice for the Packaging of Consumer Goods to ensure that environmental considerations are taken into account in packaging decisions.
4. Develop and implement programmes to raise consumer awareness & educate consumers on the need to reduce waste from packaging.
5. Promote the Singapore Packaging Agreement within its organisation.
6. Develop sustainable markets for reused/recycled packaging materials.





# SINGAPORE PACKAGING AGREEMENT **AWARDS** 2019

For more information, please visit:

[www.nea.gov.sg/SPA](http://www.nea.gov.sg/SPA) or email

[Singapore\\_Packaging\\_Agreement@nea.gov.sg](mailto:Singapore_Packaging_Agreement@nea.gov.sg)



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