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FOREWORD

It has been a great privilege serving as the Chairman of the Singapore Packaging Agreement (SPA) Governing Board for the third consecutive year. Having been involved in the SPA from the start in 2007, I am heartened to see how much we have progressed since then.

Last year, we launched the packaging benchmarking database, one of our key initiatives under the SPA. The purpose of the database is to enable local companies to compare the weight of packaging of their products against the benchmarks of similar products, and allow them to see the potential for improving their packaging design and use of materials. Since then, we have added the packaging weight benchmarks for 10 more categories of products to the database, so that we now have a total of 16 product categories covered in the database. The benchmarks were derived after conducting tests on product packaging of some 1,000 common household products and fast moving consumer goods. The database is accessible at NEA's website at www.nea.gov.sg/SPA.

During the year, we also organised two sector group meetings to provide signatories with a platform to discuss and work together to reduce packaging waste through the exchange of information on best practices as well as collaboration on projects and activities. In addition, two CEOs' luncheons were held to promote the SPA and facilitate the sharing of packaging-related developments and programmes.

While SPA has been useful in encouraging participating companies to challenge the status quo and review their packaging designs and processes to identify areas for improvement, there is still much room

for improvement in terms of broadening industry participation and garnering greater commitment by businesses in reducing packaging waste. Therefore, the SPA Governing Board and National Environment Agency (NEA) co-organised a series of industry consultations, which took place between December 2015 and May 2016, to gather suggestions and feedback on the possible introduction of mandatory requirements for more sustainable packaging waste management in the longer term.

A co-regulatory scheme could be considered in which businesses set their own standards or targets to reduce the amount of packaging waste disposed of. This could help to increase packaging resource use efficiency, improve productivity and raise overall industry packaging standards, thereby benefitting industry as a whole. Over the next few years, the SPA will play a critical role in building up industry's knowledge and capability in reducing packaging waste, so that businesses would not be caught unprepared should mandatory requirements be introduced.

I congratulate the 20 SPA signatories who will be recognised at this year's 3R Packaging Awards presentation ceremony on 12 July 2016 at the CleanEnviro Summit Singapore at Sands Expo & Convention Centre for their efforts in reducing, reusing and recycling packaging waste. At the same time, I would like to urge more companies to come on board the SPA programme and put in place measures to contribute to a more sustainable packaging resource use and waste management, while enjoying the concomitant gains from doing so.

Mr Ong Lye Huat
Chairman,
Singapore Packaging Agreement
Governing Board

INTRODUCTION



The Singapore Packaging Agreement (SPA) was inaugurated in 2007 as a joint initiative by the government, industry and non-governmental organisations (NGOs) to reduce packaging waste. The main aim of the SPA is to engage businesses to review their packaging practices and design, thereby carrying out changes that lead to waste reduction while reaping the cost benefits of doing so. At the same time, the SPA aims to raise awareness and educate consumers on how they can play their part to minimise packaging waste.

The implementation of the SPA is overseen and driven by a SPA Governing Board, comprising senior representatives from industry, government and NGOs. The members of the Governing Board are listed in the Annex. The SPA signatories have made commendable progress in reducing packaging waste since 2007. Over the past 9 years, the signatories have cumulatively reduced about 32,000 tonnes of packaging waste and saved more than S\$75 million in the process.

Since 2008, the 3R Packaging Awards (Distinction and Merit Awards) have been presented annually to SPA signatories who have made notable achievements and contributions towards the 3Rs (reducing, reusing and recycling) of packaging waste. In 2010, the Platinum and Gold Awards were introduced to recognise signatories for their sustained efforts in reducing packaging waste. Platinum Awards are presented to signatories who have received Distinction Awards for two consecutive years. Gold Awards are given to signatories who have received Merit Awards (or higher) for two consecutive years.

This booklet features the achievements of the signatories who will receive the 3R Packaging Awards this year from Mr Masagos Zulkifli, Minister for the Environment and Water Resources, on 12 July 2016 at the CleanEnviro Summit Singapore (CESS) 2016.



DISTINCTION AWARD WINNERS

CARLSBERG SINGAPORE PTE LTD

Carlsberg Singapore imported the first Carlsberg beer more than 30 years ago. Today, it has evolved to be a one-stop dynamic provider of beer, stout and cider and highly regarded as one of the most established importers in Singapore.

Today, Carlsberg Singapore is proud to offer some of the world's most well-loved and established brands in its portfolio, including Carlsberg, Carlsberg Special Brew, Kronenbourg 1664, Kronenbourg Blanc, Somersby Cider, SKOL, Danish Royal Stout, Connors Stout Porter, Corona, Jolly Shandy and Nutrimalt.

In April 2014, Carlsberg Singapore acquired a majority shareholding in MayBev Pte Ltd (MayBev), the sole distributor in Singapore for Japan's number one beer brand, Asahi. The deal allows Carlsberg Singapore to include the popular Asahi beer brand into its portfolio of alcoholic drinks alongside other international brands such as Nikka Whisky, Gekkeikan Sake, Lanson Champagne and Hooper's Hooch.

At present, Carlsberg Singapore acquires most of its beer from Malaysia, France and Mexico.



Old cluster pack with paper carton packaging



New cluster pack with plastic shrink wrap packaging

Measure to Reduce Packaging Waste

In the fourth quarter of 2015, Carlsberg Singapore changed the cluster packaging for its 6-pack of beer, from paper carton to a lighter plastic shrink wrap made out of recyclable low density polyethylene (LDPE) and linear low density polyethylene (LLDPE). This resulted in a significant weight reduction of the packaging from 160g to 28.6g per piece, resulting in the avoidance of 47.6 tonnes of packaging per year.

NESTLÉ SINGAPORE (PTE) LTD

Nestlé Singapore (Pte) Ltd is a wholly owned subsidiary of Nestlé S.A.. Headquartered in Vevey, Switzerland, it aims to be the leading Nutrition, Health & Wellness company. Over the years it has been present in Singapore, Nestlé has earned the trust of Singaporeans for being a food manufacturer with the highest safety and quality standards. Nestlé started its operations in Singapore in 1912 and has since been building on its success, largely as a result of its operating principles. Nestlé brands are household names in Singapore. These include MILO®, NESCAFÉ®, MAGGI®, NESTLÉ® NESVITA OMEGA PLUS ACTICOL, KIT KAT®, PURINA®, FRISKIES® and dozens of other market leaders in their product categories.



50kg capacity polypropylene (PP) woven bags

850kg capacity Flexible Intermediate Bulk Container (FIBC)

Measures to Reduce Packaging Waste

Nestlé is constantly looking for ways to optimise the use of packaging materials and has launched three new initiatives to reduce packaging waste over the year.

In the first initiative implemented in February 2016, Nestlé switched from a 50kg capacity polypropylene (PP) woven bag to an 850kg Flexible Intermediate Bulk Container (FIBC) for storage of tapioca starch used to produce malt extract. Through this initiative, Nestlé has saved 64.85 tonnes in packaging materials a year.

In its second initiative, Nestlé reduced the height of the corrugated carton boxes used for its NESCAFÉ® 3-in-1 INTENSE packs by 30mm which resulted in a weight reduction from 1,148g to 1,003g. Nestlé is able to avoid 0.52 tonne of paper packaging with material cost savings of \$250 annually.

Lastly, Nestlé switched from one-time use cable ties in their production plant since April 2015. These cable ties are used in the manufacturing area to pack temporary products that are meant to be reprocessed at a later time. Nestlé estimated that on average 5,500 cable ties are disposed of a year and this initiative has allowed Nestlé to cut back on 0.02 tonne of plastic waste annually with material cost savings of \$300.



New NESCAFÉ® 3-in-1 INTENSE box (right) which is 30mm shorter than before

TETRA PAK JURONG PTE LTD

Tetra Pak is a specialist in complete solutions for processing, packaging and distribution of food products. Its solutions are specifically designed to be as economical with resources as possible. Dairy products, juices and nectars, ice cream, cheese, dry foods, fruits, vegetables and pet food are examples of products that can be processed and packaged in Tetra Pak's processing and packaging lines.

The company focuses on keeping the consumption of all raw materials and energy to a minimum during the manufacturing process as well as the distribution of the packaged products. Tetra Pak products are divided into several different categories:

- Packages
- Processing equipment
- Filling machines
- Distribution equipment
- Service products



"Co-printing" optimisation used at the Tetra Pak factory in Jurong which requires a single setup for the production of packaging of multiple designs

Other environmental initiatives

As the world's leading food packaging and processing solutions company, Tetra Pak believes in responsible industry leadership and a sustainable approach to business. In Singapore, the company actively promotes green living and waste recycling by sharing its knowledge and expertise in sustainability, facilitating the collection infrastructure of used beverage cartons (UBCs), and supporting recycling technology development. Over the years, Tetra Pak participated in numerous Clean & Green Singapore events to raise community awareness on UBCs recycling, and engaged in various environmental awareness talks including the recent NTU Sustainability Speaker Series. In addition to an ongoing school recycling programme called the Little Green Dots Project, it also works hand-in-hand with Nan Hua High School in educating its students on the need to protect and care for the environment as well as keep it clean and green, through organisation of the annual National Environment Quiz at Nan Hua High School.

Measure to Reduce Packaging Waste

Tetra Pak is committed to reducing the environmental impact of its operations, and enhancing the environmental performance of its products and services for the food and beverage industry.

Tetra Pak adopted a new printing method which reduced the amount of paper waste from the setting up of printers and laminators. Previously, to produce each packaging design, one set of the following materials and equipment would be required:

- one roll of paper board;
- one design plate; and
- tape to paste the design plate onto the printing roller.

The first part of the paper board (referred to as "setup paper") is discarded as waste after each setup. In the production of packaging with multiple designs, different designs would be printed on separate rolls of paper board, resulting in a lot of setup paper waste.

To optimise materials usage, "co-printing" optimisation was adopted at its Jurong factory which allowed multiple designs to be printed on a single roll of paper board. As a result, less setup paper waste was generated and Tetra Pak estimated that 270 tonnes of setup paper board can be avoided per year.

TOSHIBA TEC SINGAPORE PTE LTD

Toshiba TEC Singapore Pte Ltd, a company under the Toshiba TEC Corporation Group, designs, builds and provides world-class turnkey original design manufacturing (ODM) and original equipment manufacturing (OEM) products to key players in industries.

The company believes in the principle of “monozukuri” – creating quality products with pride and passion while always keeping the customers in mind. In line with this corporate philosophy, the company is committed to placing care for the environment as a priority in all its business activities so as to protect the people’s safety and health, as well as the world’s natural resources.



Goods delivered using wooden pallets, secured with plastic stretch film



Goods delivered in reusable metal cages

Measure to Reduce Packaging Waste

Toshiba TEC used to receive electronic components, moulded plastic parts and metal stamping parts from their suppliers on wooden pallets. The parts were then secured with plastic stretch film. Since May 2015, the company has provided its suppliers with metal cages that are reusable and longer lasting for delivery of the parts, thus obviating the need for wooden pallets and plastic stretch film. This has allowed Toshiba TEC to reduce 31.68 tonnes of wood waste along with 0.54 tonne of stretch film waste annually, which are equivalent to about \$24,000 in material cost savings.



Employees engaging in the in-house environmental exhibition

Other environmental initiative

In November 2015, Toshiba TEC organised an in-house exhibition to raise environmental awareness among its employees through screening of a video and 3R games at a mobile kiosk. Through the exhibition, Toshiba TEC was able to reach out to over 500 of its employees.

MERIT AWARD WINNERS

ABBOTT

Abbott has long been in the business of life, creating more possibilities for more people through the power of health. People at their healthiest have the potential to live not just longer, but better, in mind and body. Better health allows people and communities to achieve more. The company creates new solutions – in diagnostics, medical devices, nutrition and branded generic pharmaceuticals – that help people around the world, in all stages of life, live their best lives.

Abbott is one of the largest diversified global healthcare companies, with approximately 74,000 colleagues devoted to making a lasting impact on human health in Singapore and other countries around the world.

Abbott’s nutrition manufacturing facility in Singapore is the company’s largest nutritional investment and first nutrition plant in Asia. This state-of-the-art facility produces science-based nutrition products for people across the Asia-Pacific region, providing world-class levels of quality, safety and environmental performance throughout the manufacturing and distribution process.



Cans with the old LDPE overcaps



Cans with the new and lighter PP overcaps

ASIA PACIFIC BREWERIES (SINGAPORE) PTE LTD

Asia Pacific Breweries (Singapore) Pte Ltd (APBS) is a leading brewing company in Singapore, with more than 80 years of brewing excellence. Home to the world-acclaimed Tiger Beer, APBS also brews Heineken, Anchor Beer, Baron’s Strong Brew, Guinness Stout, ABC Stout and the Archipelago range of craft beers. To create great beer experiences for all occasions, APBS also boasts a wider portfolio of beers which comprises Kirin, Erdinger, Kilkeny, Guinness Draught, Strongbow, Bulmers and Sol. APBS is also committed to brewing sustainably, with measures in place to minimise its impact on the environment, governed by its Brewing a Better World sustainability strategy. APBS is a HEINEKEN operating company.



New and lighter 323/330ml aluminium cans



New and lighter bottle caps

Measures to Reduce Packaging Waste

As part of Abbott’s global efforts to protect the environment, the company continually works to find new ways to reduce the environmental impact of its packaging. A few recent examples of Abbott’s sustainable packaging work in Singapore:

Since December 2015, Abbott reduced the weight of the plastic overcap for all its 127mm-diameter-can products. The weight of the overcap was brought down from 13.1g to 7.0g, a 47% weight reduction with a change in material from low density polyethylene (LDPE) to polypropylene (PP). This has allowed Abbott to reduce plastic usage by 4.28 tonnes while reducing material costs at the same time.

Abbott previously manually packed its 127mm-diameter-can overcaps into carton boxes, using a carton U-tray and a polyethylene (PE) bag to hold the overcaps together. A mechanised system has, however, allowed more caps to be packed into a bigger box, eliminating the need for the U-tray. A thinner PE bag is also used to line the carton box before the overcaps are packed in. Through this initiative, Abbott is expected to be able to reduce 0.4 tonne and 0.34 tonne of paper and plastic waste respectively, in a year.

Measures to Reduce Packaging Waste

APBS embarked on the first phase of material reduction of aluminium cans in 2010. In 2015, APBS further reduced the weight of its 323/330ml aluminium cans from 10.5g to 10.4g. This was achieved by reducing the thickness of the can from 0.275mm to 0.270mm.

This latest phase in 2015, has increased the total reduction to 78 tonnes of aluminium in total per year, across both domestic and export production.

In another initiative, APBS also worked with Crown Bevcan and Closures (Thailand) to reduce the thickness of its bottle caps from 0.23mm to 0.22mm. As a result, the weight of the caps was reduced from 2.128g to 2.067g.

Through the above two initiatives, APBS reduced a total of 7.03 tonnes of metal packaging annually for the domestic market alone.

COCA-COLA SINGAPORE BEVERAGES PTE LTD

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

CCSB understands that a well-designed package helps to prevent waste and invests in technologies and recovery systems that enable them to use more sustainable materials.



Left: Old 202/211 standard 330ml cans with larger carton flatboard

Right: New 202/204 sleek 330ml cans with smaller carton flatboard



Still beverage in 500ml and 1500ml bottles with lighter packaging

Measures to Reduce Packaging Waste

In 2015, CCSB introduced the new "Sleek 202/204" design for its 330ml cans (with end diameter of 52mm and can diameter of 54mm), making the new cans taller and slimmer than those of the original can design. This design change allowed the company to shrink the dimensions of the carton flat board used in deliveries from 266mm x 386mm to 237mm x 338mm. As a result, the weight of each flat board was reduced from 45.8g to 35.4g. This translated into reduction of paper packaging of 0.8 tonne a year.

Another initiative by CCSB was to reduce the thickness of the low density polyethylene (LDPE) shrink film used to wrap beverages from 80 microns to 70 microns. This resulted in a reduction of 2.91 tonnes of LDPE shrink film and \$6,000 in material cost savings per annum.

CCSB also found a way to reduce the weight of the polyethylene terephthalate (PET) bottles of their still beverages. The weight of its 500ml bottle was reduced from 23g to 22.28g while the weight of its 1500ml bottle was reduced from 44g to 42.2g. This has allowed the company to cut down on 8.99 tonnes of plastic packaging each year.

DELL GLOBAL B.V. (SINGAPORE DESIGN CENTRE)

Dell Global B.V. (Dell) distributes and markets computer hardware in Singapore. From its beginning as a start-up PC maker in Michael Dell's dormitory room at the University of Texas, Dell has grown to become one of the world's leading technology solution providers.

Dell has recovered 1.4 billion pounds of used electronics since 2007, making the company the world's No.1 recycler of e-waste and the first in the industry to use recycled plastics in the manufacture of new PCs and displays.



Left: Old blister packaging
Right: New corrugated board packaging



New corrugated board packaging with 100% recycled moulded paper pulp

Measures to Reduce Packaging Waste

In February 2016, Dell introduced redesigned packaging for its wireless mouse by changing it from polyethylene terephthalate glycol-modified (PETG) blister package to new packaging comprising a box made from corrugated board and a rigid PET hanging tab. This resulted in not only a reduction in the dimensions of the packaging but also a reduction in weight from 60.3g to 30.3g. Dell is expected to save an annual amount of about 0.06 tonne of packaging materials through this initiative.

In another initiative, Dell switched the inner packaging used to hold their flat panel monitor and accessories in place, from regular corrugated cardboard to corrugated cardboard made from 100% recycled moulded paper pulp. This change also reduced the total weight of the packaging from 1.3kg to 1.25kg. An estimated 0.55 tonne of packaging waste was avoided annually along with material cost savings of \$445 for the company.

F&N FOODS PTE LTD

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

Its wide portfolio of brands include 100PLUS isotonic drinks, F&N MAGNOLIA milk, F&N FRUIT TREE juices, F&N NUTRISOY, F&N SEASONS Asian-inspired drinks and teas, F&N ICE MOUNTAIN water and F&N aLIVE yoghurt, alongside the familiar range of F&N sparkling drinks.

In recognition of the high quality and safety standards of F&N products and their distinctive marketing, the company has been conferred many awards and accolades such as HACCP accreditation since 2003 for F&N Foods and Superbrands gold recognition. F&N's established networks and strategic partnerships provide the company with the impetus to continually innovate and expand its portfolio of brands while strengthening its capabilities across the region.

Measure to Reduce Packaging Waste

In April 2015, F&N Foods Pte Ltd found a way to reduce the amount of aluminium used in the lids of its 100PLUS and F&N carbonated canned drinks. The weight of the can lid was brought down from 3.8g to 2.8g – a 26.3% reduction in weight. F&N Foods estimated that it would be able to reap material saving of 50.2 tonnes of aluminium as well as \$117,000 in material cost savings per year.



Old (left) and new (right) aluminium cans for 100PLUS

GREENPAC (S) PTE LTD

Started in 2002, Greenpac is a knowledge-based company specialising in providing innovative and holistic packaging solutions using resource efficient and environmentally friendly packaging which can help its clients reap bottomline savings.

The company's principles of finding innovative green solutions are in line with the 3Rs of reduce, reuse and recycle. The company actively encourages its partner companies to discuss and work together to develop workable and cost-effective solutions to reduce packaging waste.



Old packaging made out of wood



New lighter packaging made out of PP corrugated sheet

Measure to Reduce Packaging Waste

In response to customer feedback, Greenpac redesigned the packaging used to house the Sirius Microscope in July 2015. The old packaging was made out of wood while the new packaging is made out of a lighter polypropylene (PP) corrugated sheet. The design overhaul saw the packaging weight reduced from 80kg to 32kg – a 60% reduction. This allowed the company to avoid 4.13 tonnes of packaging material a year while reaping in annual material cost savings of \$17,200.

Other environmental initiative

Greenpac also conducts 'learning journeys' for educational institutes, government agencies and various private sector companies to educate them on sustainable packaging solutions. These are conducted every quarter and the company has conducted 10 of these sessions to date, with an average attendance of 25 people at each event.

HA LI FA PTE LTD

Ha Li Fa Pte Ltd started off as a small family business making fresh fish balls more than 30 years ago. Today, it has developed into a leading manufacturer in seafood based products, ranging from the original fresh fish balls to the various cooked & fried fish balls / fish cakes, the raw / fried Yong Tau Foo and Wu Xiang hand-made items, and many types of chicken sausages, ham, and meat ball products.



Products delivered with secondary carrier plastic bags



Elimination of the use of secondary carrier plastic bags



Old wooden pallets



New plastic pallets

Measures to Reduce Packaging Waste

In August 2015, Ha Li Fa worked with their tenant customers to eliminate the use of secondary carrier plastic bags when delivering products to them. This has helped Ha Li Fa to save 1.39 tonnes of plastic packaging a year and achieving \$400 in material cost savings.

The company also identified that the wooden pallets used in deliveries did not last long and had to be thrown away frequently. Hence, they decided to switch to using plastic pallets which lasted at least 4 times longer, helping Ha Li Fa to avoid 12 tonnes of packaging waste annually.

Other environmental initiatives

In October 2015, Ha Li Fa worked with their supplier of printing labels to reuse paper cores leftover from production for subsequent usage. In another initiative, Ha Li Fa replaced the provision of hand towels with hand dryers which avoided 6.88 tonnes of paper waste a year.

HEWLETT PACKARD ENTERPRISE

Hewlett Packard Enterprise (HPE) operates a manufacturing facility in Singapore for enterprise products including servers, as well as storage and networking devices. HPE strives to conduct its business in a manner that delivers top-notch environmental, health and safety performances, consistent with its commitment to corporate citizenship, social responsibility and sustainability.



Left: DVD Drive was previously packed in a bigger corrugated box with LDPE foam cushion (total weight: 338g)

Right: DVD Drive is now packed in a smaller corrugated box with lighter HDPE thermoformed cushion (total weight: 282g)



Old packaging used for the Blade Server comprising corrugated box and inner LDPE foam cushion (total weight: 1,665g)



New packaging for the Blade Server comprising a smaller corrugated box with air-filled cushion made out of LDPE and nylon film (total weight: 1,271g)

Measures to Reduce Packaging Waste

HPE's DVD Drive was previously packed in a 297mm x 246mm x 178mm carton box, with low density polyethylene (LDPE) fabricated foam as protective packaging. In August 2015, HPE reduced the amount of packaging used for its DVD Drive packaging by replacing the LDPE fabricated foam with a lighter, high density polyethylene (HDPE) thermoformed cushion. The size of the carton box was also reduced to 241mm x 214mm x 122mm.

In another initiative, HPE also reduced the amount of packaging used for its Blade Server, which was previously packed in corrugated box (measuring 724mm x 338mm x 217mm) and protected by LDPE fabricated foam. In February 2016, HPE replaced the LDPE fabricated foam with a lighter air cushion made out of LDPE and nylon film. Smaller corrugated box (measuring 700mm x 300mm x 190mm) was also used to contain each Blade Server.

In a third initiative, HPE replaced the LDPE fabricated foam protective packaging for its ProLiant DL360 Server with a lighter Arcel moulded cushion made of 30% polyethylene (PE) and 70% polystyrene (PS), enabling the overall weight of the packaging to be reduced from 851g to 549g.

As a result of the above three initiatives, HPE is expected to be able to achieve a total reduction of about 4.06 tonnes of packaging materials a year, with associated material cost savings of nearly \$70,000.

IKEA SINGAPORE

Since opening its first store here in Singapore in 1978, IKEA has been offering a wide range of well-designed home furnishings and functional living solutions at affordable prices. The company is strongly committed to conserving the environment and promoting sustainable living. Some of the sustainability efforts by IKEA Singapore include recycling waste oil from the stores' restaurant into bio-diesel which can be used as fuel in vehicles, and holding campaigns to encourage its customers to recycle, such as its annual "Recycle Your Christmas Tree" campaign.



Reusable JAMKA container for takeaway food

Measure to Reduce Packaging Waste

The IKEA restaurant has been a popular dining option with consumers for many years. In the past, takeaway food was packed in disposable containers. Since March 2016, IKEA Singapore ceased the provision of disposable containers and takeaway food is now packed in reusable JAMKA containers at a cost of \$0.80 per piece for the small container or \$1 per piece for the large container. By not giving out disposable containers, IKEA estimated that about 4.5 tonnes of packaging waste could be avoided in a year, with associated material cost savings of \$19,550 per annum.

MARINA BAY SANDS PTE LTD

Marina Bay Sands is a leading business, leisure and entertainment destination in Asia which features a large expo and convention centre, 2,561 hotel rooms and suites, and a vast shopping mall which houses 270 world-renowned brands, world-class restaurants and an outdoor event plaza. Its two theatres showcase a range of leading entertainment performances including Broadway shows. Completing the line-up of attractions within the Integrated Resort (IR) is the ArtScience Museum, which plays host to permanent and marquee exhibitions.



Goods are now delivered using reusable plastic baskets and pallets

Measure to Reduce Packaging Waste

Back in 2010, Marina Bay Sands introduced a plastic basket and pallet exchange pilot programme in which reusable plastic baskets and pallets were provided to two of its suppliers for deliveries to the IR. To date, this programme has been expanded to 21 of its suppliers (with 11 joining the programme over the past year alone). Since the introduction of the programme, Marina Bay Sands has purchased over 12,000 plastic baskets and 1,300 plastic pallets to be used for deliveries by these suppliers, resulting in the avoidance of about 12.3 tonnes of cardboard boxes, 0.9 tonne of styrofoam boxes and 19.2 tonnes of wooden pallets per year. Taking into account the average attrition rate for the reusable plastic baskets and plastic pallets due to damages, it is estimated that a net amount of 31.7 tonnes of packaging waste is avoided per year.

OVIYAM INTERNATIONAL PTE LTD

Oviyam International Pte Ltd is a fast-moving consumer goods (FMCG) distribution company that was established in Singapore in 2006. It enjoys exclusive distribution rights for many quality brands from the Middle East, India and Bangladesh while progressively adding more products to its portfolio to cater to the demand of its customers.



Old and heavier plastic bottle

New and lighter plastic bottle

Measure to Reduce Packaging Waste

In 2015, Oviyam worked with its supplier of cooking oil to reduce the weight of its 2-litre Suryakanthy Refined Sunflower Oil plastic bottle. This resulted in the weight of each bottle dropping from 61.7g to 57.2g, a 7% weight reduction. Through this initiative, Oviyam estimated that about 0.03 tonne of plastic packaging waste could be avoided in a year, for the products imported for sale in Singapore.

SIN HWA DEE FOODSTUFF INDUSTRIES PTE LTD

Sin Hwa Dee Foodstuff Industries Pte Ltd (SHD) is an established leading producer of high-quality sauces and mixes since 1970s. Their customers include major airlines, hotels, restaurants, fast-food chain, retailers, wholesalers, distributors, caterers, food courts and coffee shop vendors.

SHD has grown from a humble outfit to become an international organisation. It has widened its product range from basic soya and oyster sauces to include pre-mixes like Kung Bo sauce, Black Pepper sauce, Laksa paste, Hainanese Chicken Rice Mix, etc. Technologically, it has advanced from using traditional manufacturing processes to high-tech machinery and equipment, housed in a large modern factory of 90,000 square feet.



Glass jar packaging with heat shrink cap seal

New packaging without heat shrink cap seal

Measure to Reduce Packaging Waste

In April 2015, SHD eliminated the tamper-proof heat shrink cap seal weighing 0.5g each from its glass jar packaging by changing the metal cap to a metal lug cap with a safety button which pops up in the event that it has been tampered with. Thus, SHD was able to cut 0.18 tonne of packaging waste with material cost savings of \$3,780 per annum.

SUNFRESH SINGAPORE PTE LTD

Sunfresh Singapore Pte Ltd (Sunfresh) entered the fruit juice market in 1981 and its core business is in the production, merchandising and trade of blended fruit juices to airlines, retail, hotel, restaurant and catering industries throughout the Asia Pacific region. Through innovation and successful expansion, Sunfresh has achieved high quality standards for its products while keeping its firm commitment to packaging waste reduction.



Use of primary plastic liners

Primary plastic liners removed

THONG SIEK FOOD INDUSTRY PTE LTD

With over 40 years of experience in fish ball and processed seafood manufacturing, Thong Siek Food Industry is the largest and leading surimi-based processed seafood manufacturer in Singapore. The company produces more than 60 varieties of appetising fish-based products including the famous DoDo fish ball, breaded scallop nuggets, ready-to-eat microwavable traditional fish ball noodles and tom yum fish cakes to appeal to a more diverse customer base. Thong Siek's products are not only well-known locally, they are also exported to more than 20 countries worldwide.



Left: DoDo Premium products range packaging measuring 245mm x 183mm

Right: DoDo Premium products range packaging measuring 206mm x 145mm

Measure to Reduce Packaging Waste

In September 2015, Sunfresh eliminated the use of primary high density polyethylene (HDPE) plastic liners for the deliveries of their aluminium cups to their factory which are used for the production of pre-packed fruit juices for airlines. It is estimated that this measure would help reduce plastic packaging waste by around 0.28 tonne annually along with cost savings of \$1,320.

Measures to Reduce Packaging Waste

In September 2015, Thong Siek reduced the size of the plastic packaging for its DoDo Premium products range from 245mm x 183mm to 206mm x 145mm. This change resulted in a reduction of the overall weight of the packaging from 8.3g to 5.5g. This measure has allowed the company to avoid 3.5 tonnes of plastic packaging a year, and also reaping material cost savings of \$40,000 annually.

In another initiative implemented in August 2015, the company reduced the thickness of two different sized packaging that are used to pack ingredients from 0.04mm to 0.02mm. This has resulted in a reduction in weight of the small sized packaging from 3.2g to 2.6g and a reduction in weight for the medium sized packaging from 7.4g to 6.7g. In total, Thong Siek has avoided 0.13 tonne of plastic waste from this initiative with material cost savings of \$140 annually.

UNILEVER SINGAPORE PTE LTD

The Unilever brand is a trusted name in nutrition, hygiene and personal care with consumer products found in millions of homes worldwide. Many of its products have household awareness status, with brands becoming part of daily life in Singapore homes. Familiar names such as Clear, Dove, Lifebuoy, Rexona, Sunsilk, Ben & Jerry's, Knorr, Lipton and Wall's have added vitality to consumers' lives.

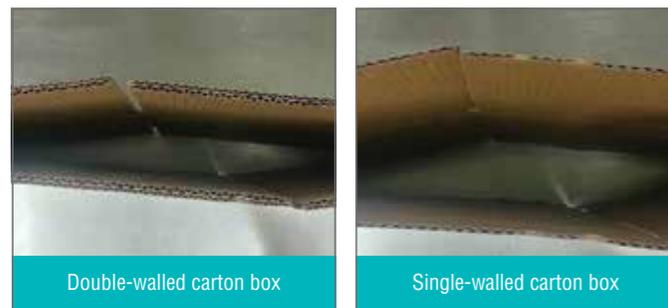


Thicker and heavier Sunlight 1-litre washing liquid plastic bottles

Thinner and lighter Sunlight 1-litre washing liquid plastic bottles

VISMARK FOOD INDUSTRIES PTE LTD

Established in the early 1990s, Vismark Food Industries (Vismark) has grown rapidly throughout the years to keep up with the ever changing needs of the hospitality industry. Vismark is constantly sourcing for new range of products to cater to the growing demand of their customers and its ability to customise recipes and food products has also brought them to a new level of business partnership with their customers.



Double-walled carton box

Single-walled carton box

Measure to Reduce Packaging Waste

As an initiative under Unilever's Sustainable Living Plan, (the company's blueprint for achieving its vision to grow its business, whilst decoupling its environmental footprint from its growth and increasing its positive social impact), Unilever Singapore looked at ways to optimise its packaging design to reduce waste.

In 2015, Unilever Singapore redesigned its Sunlight 1-litre washing liquid plastic bottle by reducing its weight from 60.25g to 47.8g, a 20.7% reduction. The thickness of the bottle was also reduced from 230 microns to 220 microns. This has allowed Unilever Singapore to reduce 0.9 tonne of plastic packaging waste per year, along with annual material cost savings of \$4,140.

Measure to Reduce Packaging Waste

Vismark used to pack its products in double-walled corrugated carton boxes for delivery. In July 2015, Vismark reduced the thickness of its corrugated carton box by switching from a double-walled to a single-walled carton box. As a result, the weight of the carton box was reduced by half from 880g to 440g. Vismark estimated that this initiative would help the company to avoid 30.8 tonnes of paper packaging waste, and up to \$21,000 savings in material costs per year.

PLATINUM AWARD WINNERS

NESTLÉ SINGAPORE (PTE) LTD

Nestlé is one of the pioneer signatories of the Singapore Packaging Agreement and has been proactive in seeking resource-efficient packaging solutions to cut down the company's packaging material usage. Their continued efforts have been sustained and they have clinched the Distinction Award every year since 2009.

Some of Nestlé's notable packaging waste reduction initiatives are:

- i) Reduced the dimensions of the corrugated carton box used for the NESCAFÉ® 3-in-1 promotion pack (24x40x19g), thereby resulting in a 15% reduction in weight.
- ii) Switched from wrapping paper labels on tin cans to printing directly on the tin cans for its MILO® 1.8kg, MILO® 1.4kg and MILO® 1.25kg products.
- iii) Reduced the cut-off length for the MILO® Hot Mix Vending 1kg pouch from 315mm to 310mm.
- iv) Reduced the thickness of laminate used for its MILO® 900g pouch from 104 microns to 84 microns.
- v) Reduced the height of MILO® refill pouch for 900g soft pack from 315mm to 310mm.
- vi) Reduced the dimensions of corrugated carton boxes used to pack the local MILO® 900g and 1kg soft packs from 480mm x 370mm x 190mm to 470mm x 350mm x 190mm.
- vii) Reduced the thickness of its 1.25kg, 1.4kg and 1.65kg MILO® tin cans from 0.25mm to 0.22mm.
- viii) Reduced the thickness of laminate used for its NESCAFÉ® 3-in-1 ORIGINAL Coffee products, from 82 microns to 65 microns.
- ix) Eliminated the use of paper cartons to pack its MILO® 900g and 3-in-1 soft packs.
- x) Changed the packaging for its MAGGI® Chef's Secret concentrated seasoning from a plastic tub to a plastic pouch.
- xi) Changed the packaging for its MILO® 400g product from tin can to pouch.
- xii) Eliminated the usage of corrugated board fitment in the carton boxes used to pack its NESCAFÉ® 3-in-1 ORIGINAL Coffee products.
- xiii) Increased the length of laminate packaging per reel to reduce the frequency of changeover of laminate reels required in the production processes for its MILO® Hi-Calcium, Easy Cool 3-in-1 sachets, and MILO® 3-in-1 sachets.
- xiv) Modified the production line of its MILO® soft pack to improve efficiency of operations by bringing down laminate losses from 6% to 1-2%.



Left: Old MILO® 1.25kg tin can with paper label

Right: New MILO® 1.25kg tin can with product information directly printed on

TETRA PAK JURONG PTE LTD

Tetra Pak is a consecutive winner of the Distinction Award since the inception of the 3R Packaging Awards in 2008. By adopting the philosophy of continuous improvement, the company systematically seeks to minimise its impact on the environment by making efficient use of resources including energy, water and raw materials.

Examples of how it has successfully reduced packaging waste over the years include:

- i) Switched from collecting loose confetti (i.e., a by-product from beverage carton production) in plastic bags to compressing it into briquettes to be sent for recycling, thereby eliminating the need for plastic bags.
- ii) Implemented a new practice for preparation of the paperboard packaging material for the printing process so as to reduce wastage of paper.
- iii) Switched to a flying setup when changing the width of polyethylene (PE) coating for the paperboard during the lamination process, so that the production line would not need to be stopped, thereby reducing both PE and paper waste.
- iv) Invested in new equipment so that PE trim could be recovered from one of its laminating machines, for reuse in the packaging production process.
- v) Implemented a standardised procedure to remove dust particles (which cause production defects) from the chilled roller whenever there is a temporary break in the lamination process, so as to reduce packaging material wastage.
- vi) Reused paperboard with printing defects in place of fresh paperboard for setting up printers and laminators; it is reused twice for the printer set-up and 3 times for the laminator set-up, before being eventually used as protective layers for work-in-progress rolls, and protective sheets for palletisation of finished goods.



Loose confetti is collected using plastic bags



Confetti is compressed into briquettes, eliminating the need for plastic bags

GOLD AWARD WINNERS

ABBOTT

Abbott's approach to responsible citizenship starts with its business. The company is building a more responsible, sustainable and inclusive business to reach more people, in more places, than ever before. One sustained effort is in packaging reduction, where Abbott claimed the Merit Award in 2014 and 2015, and the Gold Award in 2015.

Some of the packaging waste reduction initiatives include:

- i) Removed the top plastic cover sheet for finished goods packed on pallets.
- ii) Optimised the manual packing of overcaps.



Original packing method with top plastic sheet



New packing method without top plastic sheet

COCA-COLA SINGAPORE BEVERAGES PTE LTD

Coca-Cola Singapore Beverages Pte Ltd (CCSB) has been constantly looking at ways to protect the environment through packaging waste reduction and has clinched the Distinction Award in 2012 and 2015.

Examples of CCSB's previous efforts in reducing packaging waste include:

- i) Reduced the neck diameter of the can body, thickness of the can lid as well as the curled diameter of the can lid, which resulted in a reduction of the weight of the aluminium can from 14.4g to 13.3g.
- ii) Reduced the weight of polyethylene terephthalate (PET) bottles for its range of sparkling beverages from 44.0g to 41.7g for the 1.5L bottle and from 25.5g to 22.7g for the 500ml bottle.
- iii) Invested in two new shrink-wrap machines which reduced the amount of carton material used in packing beverages.



Left: Previous Coca-Cola aluminium can with 206/211 configuration
Right: New Coca-Cola aluminium can with 202/211 configuration

F&N FOODS PTE LTD

F&N Foods Pte Ltd has been putting effort into reducing packaging used for their products and has been awarded the Gold Award this year in the 3R Packaging Awards for its sustained efforts.

Here are some packaging waste reduction measures implemented by the company over the years:

- i) Re-designed its Sunkist 2-litre plastic bottle resulting in a reduction of plastic resin used for each bottle from 122g to 85g.
- ii) Reduced the amount of polyethylene terephthalate (PET) resin used in its production of each bottle for its F&N and 100PLUS carbonated drinks.
- iii) Eliminated the tamper-proof ring from the cap of F&N Foods' drink cartons, thereby reducing the weight of the cap from 1.6g to 1.5g.
- iv) Reduced the weight of its Fruit Tree 2-litre plastic bottle from 100g to 85g.



Old Sunkist 2-litre design



New Sunkist 2-litre design



Old (left) and new (right) PET bottles for 100PLUS carbonated drinks

GREENPAC (S) PTE LTD

Greenpac is focused on providing sustainable packaging solutions as part of its business model and the company has been winning the Gold award every year since 2013.

Some of the company's previous initiatives to reduce packaging waste include:

- i) Re-engineered the packaging used to transport the VAVE M220 F12 medical instrument, resulting in a 35% net decrease in weight per unit packaging.
- ii) Re-designed the wooden crate used for transportation of the VAVE 5600/4600 medical instrument, such that it is 33% lighter in weight.
- iii) Re-engineered the wooden crate used for transportation of the VAVE3200 medical instrument, making it 21% lighter in weight than the original crate.



Old wooden crate packaging



New packaging consisting of a combination of carton box, protective polyethylene (PE) foam and collapsible plywood supporting structure

HA LI FA PTE LTD

Ha Li Fa's desire to have a positive impact on the environment is evident, as they have clinched the Gold Award every year since 2011.

Some of the measures that the company has taken in the past to reduce packaging waste include:

- i) Eliminated the use of sticker labels for its client's house brand products and printed the product information directly on the packaging films instead.
- ii) Returned used outer carton boxes for meat balls to its suppliers for reuse.
- iii) Worked with its suppliers to replace the use of carton boxes and kraft papers, with returnable plastic trays for the transportation of products to its factory.
- iv) Reduced the size of plastic carrier bags used for transportation of vacuum-packed fish ball products to supermarkets.
- v) Dispensed with the use of pallets and shrink wrap for overseas exports.
- vi) Replaced stainless steel tanks with re-used plastic pails to store products; allowing them to also cut on plastic packaging required for transporting of goods.
- vii) Installation of a new packaging machine which allowed less plastic packaging to be used.
- viii) Initiated tighter control on the use of cleaning agent so that the usage of cleaning agent reduced from 20 drums to 6 drums per month, thereby cutting the amount of packaging waste generated as well.
- ix) Worked with its cleaning agent supplier to reuse the containers for supplying fresh batches of cleaning agent.

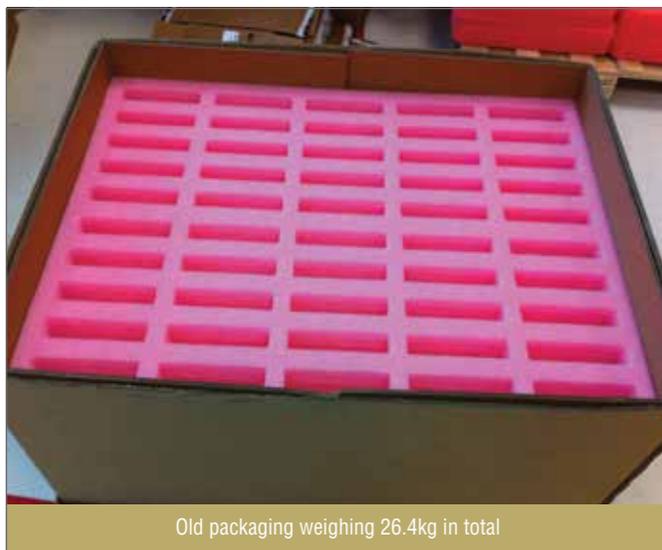


Left: Previous packaging with sticker label
Right: Product information is directly printed on the new packaging

HEWLETT PACKARD ENTERPRISE

Since 2014, HPE has actively sought ways to reduce the generation of waste and has implemented several packaging reduction measures including the following:

- i) Reduced the net amount of packaging needed to pack and ship its 50-pack HPE 3PAR Drive Magazines (DMAGs) by using a combination of lighter and recycled materials.
- ii) Reduced the net amount of packaging materials used to pack its HPE 3PAR MBOD Drive for delivery to clients, by changing its packaging method and re-designing the packaging components; the smaller dimensions of the new HPE 3PAR MBOD Drive packaging also meant that the amount of wooden pallets used in its transportation could be halved.



Old packaging weighing 26.4kg in total



New packaging weighing 24.3kg in total

SUNFRESH SINGAPORE PTE LTD

Sunfresh Singapore has been a signatory of the Singapore Packaging Agreement since 2007. The company strongly believes in doing its part for packaging waste reduction and has won itself an award every year since 2008

Some of the past waste reduction initiatives implemented by Sunfresh are listed below:

- i) Installed new fruit juice extractor with 5% additional yield, resulting in 9% less oranges needed to produce the same yield and 27 fewer cardboard bulk bins required for transportation and storage of the oranges.
- ii) Decreased the proportion of corrugated cardboard boxes used from 20% to 3% so that about 97% of all Sunfresh products are supplied in plastic returnable trays.
- iii) Used large carton bins instead of carton boxes to store oranges for production of orange juice, cutting paper wastage.
- iv) Reduced the weight of plastic cups supplied to airlines from 4.7g to 4.4g.
- v) Eliminated the use of secondary plastic liners for packaging of disposable cups for delivery to the airlines.
- vi) Replaced its old juice filling machine with a new one with lower incidences of sealing defects, thereby reducing the percentage of juice cartons that would be rejected and disposed of, from 1.2% to 0.4%.



New fruit juice extractor with higher yield

THONG SIEK FOOD INDUSTRY PTE LTD

Adhering to its commitment to greener practices, Thong Siek Food Industry has been assessing its packaging material usage and exploring ways to reduce packaging material usage and exploring ways to reduce packaging waste without affecting product quality and safety.

Thong Siek has implemented the following packaging reduction measures:

- i) Reduced the size of the plastic packaging for its Fuzhou fish balls from 208mm x 180mm to 208mm x 147mm.
- ii) Reduced the size of the sticker labels used on all its carton boxes from 101mm x 165mm to 87mm x 70mm.
- iii) Reduced the size of the label sticker on the packaging of its Saito fish paste product from 123.5cm² to 80.8cm².
- iv) Eliminated the need for a separate paper sticker to be attached to the Saito fish paste packaging by printing the 'Use By' date directly onto the new label sticker.
- v) Reduced the height of the carton box used for delivery of fried products by 25mm.



Left: Previous packaging (208mm x 180mm in size)

Right: New packaging (208mm x 147mm in size)

TOSHIBA TEC SINGAPORE PTE LTD

Toshiba TEC Singapore has been conscientiously looking for ways to improve its operations and practices so as to reduce packaging waste.

Past initiatives include the following:

- i) Worked with its supplier to replace wooden pallets with reusable plastic pallets for the delivery of stamping parts to its factory.
- ii) Worked with its local suppliers to use reusable plastic pallets instead of wooden pallets to deliver plastic and metal parts for its equipment, thereby reducing wood packaging waste by about 20.7 tonnes per year.
- iii) Replaced the use of carton boxes with reusable plastic containers for the delivery of plastic and metal parts by its suppliers, thereby avoiding 4.24 tonnes of paper packaging waste per year.



Wooden pallet with 64 boxes of stamping parts



Reusable plastic pallet with 112 boxes of stamping parts

SINGAPORE PACKAGING AGREEMENT GOVERNING BOARD MEMBERS

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Mr Ong Lye Huat

Head of EHS and Security, Abbott Manufacturing Singapore Pte Ltd

MEMBERS

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Mr Edwin Seah

Executive Director, Singapore Environment Council

Dr Lee Mun Wai

Senior Manager, Food Innovation & Resource Centre (FIRC)

Mr Eric Maurice Huber

Co-opted Member

FORM FOR PARTICIPATION IN THE SECOND SINGAPORE PACKAGING AGREEMENT

I, (Name) _____, (Designation) _____,

represent (Name of organisation/company) _____

in signing 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: _____

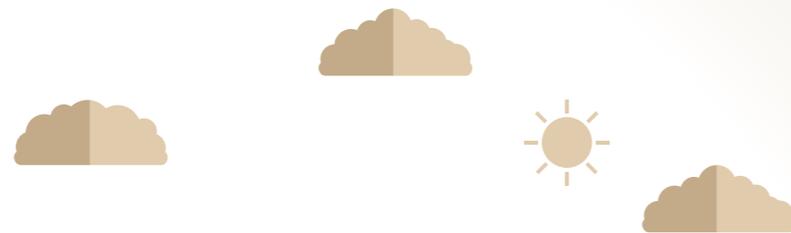
Nature of business: Manufacturing / Services / Others (please specify)* _____

**Please delete accordingly*



Please scan the completed form and email the soft copy to the Singapore Packaging Agreement Secretariat at singapore_packaging_agreement@nea.gov.sg.

Please note that all applications to join the Singapore Packaging Agreement are subject to approval by the Singapore Packaging Agreement Governing Board.



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



National
Environment
Agency

Safeguard • Nurture • Cherish

For more information, please visit:

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Singapore_Packaging_Agreement@nea.gov.sg

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