3R PACKAGING AWARDS 2015
It has been an exciting and fulfilling year for the Singapore Packaging Agreement (SPA). We saw large international brands such as Unilever, Cadbury and Kellogg joining the SPA; there is now greater awareness of the SPA among the hotels and shopping malls due to increased outreach efforts, and the signatories have collectively achieved a further reduction of 380 tonnes of packaging waste per year — no mean feat considering that it gets more challenging to find new ways to reduce packaging waste as low-hanging fruits have been plucked.

It has been an exhilarating journey over the past 8 years since the SPA was initiated in 2007 and we have seen SPA’s sphere of influence grow, with more big names coming on board to pledge their commitment to reduce waste and get their suppliers and partners to do so as well. I therefore welcomed the news of the extension of the SPA (originally due to expire on 30 June 2015) for another 5 years to 2020, as well as the planned roll-out of a suite of enhancements to increase the awareness of packaging waste.

Last year, we developed a Logo for Products with Reduced Packaging (LPRP), which is a voluntary eco-label for products that have undergone improvements to reduce the amount of packaging material used. Over the past year, we have been working with the eligible SPA signatories to have the LPRP printed on their qualifying products. Consumers will soon be able to find the products carrying this logo on the supermarket shelves, and this will help them to make informed choices at the point of purchase.

We also developed a database of packaging benchmarks for common consumer products sold in Singapore. This database (which is now accessible at www.nea.gov.sg/SPA) will allow companies to compare the weight of packaging of their products against the benchmarks of similar products, and enable them to see the potential for improving their packaging design and use of materials. Hopefully, this will spur more companies to review their packaging practices and take actions to reduce waste.

At the 3R Packaging Awards presentation ceremony on 22 October 2015, we will recognise 16 signatories for their efforts in reducing, reusing and recycling packaging waste. I congratulate this year’s winners and commend them for improving the sustainability of their packaging. With the upcoming enhancements to the SPA, I look forward to seeing more companies step up to implement initiatives that would lead to less waste. Finally, I would like to urge all companies which use or supply packaging in your business operations to join us in our quest to cut waste and make more sustainable use of packaging resources. Let us do our part in the endeavour towards a more sustainable future for Singapore.
INTRODUCTION

The Singapore Packaging Agreement (SPA) was introduced in 2007 to encourage businesses to review their packaging practices and designs and find opportunities to implement changes that would lead to a reduction in packaging waste. In addition, the SPA aims to raise awareness and educate consumers on how they too, can contribute to packaging waste minimisation. 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.

Since 2007, the signatories have cumulatively reduced about 26,000 tonnes of packaging waste and saved more than S$58 million in the process. The SPA, originally due to expire on 30 June 2015, has been extended for five years till 30 June 2020 to enable the signatories to build on the good work achieved so far.

One of the key programmes under the SPA is the 3R Packaging Awards, which encourage signatories to play an active role in reducing packaging waste, is the 3R Packaging Awards. Since 2008, the signatories 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, on 22 October 2015 at the WasteMET Asia Industry Awards Dinner.

Measures to reduce packaging waste

In 2014, CCSB undertook a project to convert the configuration of the cans utilised for its canned sparkling and still beverages from 206/211 (end diameter/can diameter) to 202/211 (end diameter/can diameter). This conversion is aligned with The Coca-Cola Company’s global initiatives related to sustainable packaging innovation.

By switching to the 202/211 can configuration, the neck diameter of the can body, thickness of the can lid as well as the curled diameter of the can lid are reduced, resulting in a reduction of the weight of the aluminium can from 14.4g to 13.5g.

Through this initiative, CCSB is expected to convert aluminium packaging by 227 tonnes per year.
DISTINCTION AWARD
WINNER

F&N FOODS PTE LTD

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

Committed to meeting the health and wellness needs of consumers in the region and across the world, F&N is driven by its overarching philosophy of Pure Enjoyment, Pure Goodness. F&N has built a wide and exciting portfolio of beverage and food products with a strong emphasis on healthy enjoyment. Brands under the F&N umbrella 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. Many of the F&N brands are market leaders in their respective categories.

Measures to reduce packaging waste

F&N Foods Pte Ltd has been putting effort into reducing packaging used for their products. For their products. In 2014, the company embarked on a project to re-design its Sunkist 2-litre plastic bottle so that less plastic could be used to produce the bottle, while maintaining its quality. The bottle with the new design now weighs 85g, which is 30.5% lighter compared to the original bottle (112g). This means that F&N can cut its annual plastic usage by 34.3 tonnes and save $144,000 in material costs per year.

F&N Foods also reviewed the design of the bottle for its F&N and 100PLUS carbonated drinks to see if they could reduce the amount of PET resin used in its production. The project resulted in the creation of new, lighter, and more streamlined designs for the 500ml and 1.5-litre PET bottles for the F&N and 100PLUS carbonated drinks. The weight of the 500ml PET bottle (F&N Clearly Citrus, Grape, Ice Cream Soda, and Orange, and 100PLUS) was brought down from 27.5g to 22.7g – a 17.5% reduction in weight, while maintaining its quality. The weight of the 1.5-litre PET bottle (F&N Cherryade, Clearly Citrus, Fruitade, Ginger Ade, Grape, Ice Cream Soda, Orange, Pink Grapefruit, and Sarsi, and 100PLUS) was brought down from 46g to 42.75g – a 7.1% reduction in weight. Through this initiative, F&N Foods estimates that it will be able to save 87.7 tonnes of plastic packaging, as well as achieve $126,000 in material cost savings per year.

DISTINCTION AWARD
WINNER

NESTLÉ SINGAPORE (PTE) LTD

Nestlé Singapore (Pte) Ltd is a wholly owned subsidiary of Nestlé S.A. The company started operations in Singapore in 1912 and has four plants in Singapore which manufacture a wide range of food and beverage products.

Over the years, Nestlé has been producing a wide range of products that are household names such as MILO®, NESTLE® COCO cen®, MAGGIO®, NESTLÉ® UMELA® PLUS®, ACTICOL®, KIT KAT®, KOKO KRUNCH®, HONEY STARP®, PURINA®, HRoWNE® and many other market leaders in their respective product categories.

Measures to reduce packaging waste

Nestlé Singapore (Pte) Ltd recently implemented four key initiatives to reduce packaging waste.

In the first initiative, Nestlé reduced the dimensions of the corrugated carton box used for the NESTLE® 3-in-1 promotion pack (24x40x19g), so that the box is now the same size as the one used for the NESTLE® 3-in-1 Original pack (24x35x19g), thereby resulting in a 15% reduction in weight. This translates into a reduction in consumption of 10.4 tonnes of paper packaging used per annum and material cost savings of $8,250 per year.

In its second initiative, Nestlé reduced the cut-off length for the MILO® Hot Mix Vending 1kg pouch, from 315mm to 330mm. This is expected to enable the company to achieve material cost savings of $1,440 as well as lower its plastic packaging material usage by about 0.21 tonne annually.

In its third initiative, Nestlé’s Nestlé’s third project involved reducing the thickness of laminate used for the MILO® 400g pouch from 116 microns to 84 microns. This resulted in a reduction in the weight of the plastic packaging from 10.95g to 9.40g, thus saving 0.85 tonne of plastic packaging per year and cutting material costs by about 9%.

The fourth initiative Nestlé implemented was to switch from wrapping paper labels on tin cans to printing directly on the tin cans for 3 of its products — MILO® 1.8kg, MILO® 1.4kg and MILO® 1.25kg, thus avoiding the use of 0.3 tonne of paper labels annually.

Other environmental initiative

In December 2013, Nestlé had launched the “Beyond the Label” programme which involves putting Quick Response (QR) codes onto its products to give consumers instant access to information about the nutritional profile as well as the environmental and social impacts of the products. At that time, the company started incorporating a QR code on its MILO® 1.4kg tin cans only. Nestlé has since extended the incorporation of the QR code onto all its MILO® products for in-home consumption, including its 450g tin cans, 1.25kg tin cans, 900g softpacks and 3-in-1 stick packs.

The size of the corrugated carton box for the NESTLE® 3-in-1 promotion pack 24x40x19g (right) has been reduced so that it is now the same size as that for the NESTLE® 3-in-1 Original pack 24x35x19g (left)
Seagate is the global leader in data storage solutions, developing products that enable people and businesses around the world to create, share and preserve their most critical memories and business data.

Over the years the amount of information stored has grown from megabytes all the way to gigabytes, affirming the need for greater efficiency and more advanced ways to create, share and access data around the world.

As an industry leader, Seagate is proactive in identifying and implementing waste minimisation initiatives.

Measures to reduce and recycle packaging waste

Last year, Seagate continued to build on its earlier efforts to reduce packaging waste.

Seagate used a substantial amount of polyethylene-aluminium packaging material to pack its partially finished products for transfer between its manufacturing plants. While the company tried to minimise the waste arising from its operations, there would still be a significant amount of polyethylene-aluminium packaging material that would end up as waste and be discarded. In July 2014, Seagate began collecting this polyethylene-aluminium packaging waste and sent it for recycling instead. It is estimated that, with this new initiative, about 42 tonnes per year of packaging waste would be diverted away from disposal and be recycled.

In another initiative, Seagate enhanced its previous purchasing strategy for the plastic gaylords (or pallet boxes), which are used to store and then ship products to overseas customers. Last year, Seagate changed its purchasing strategy and started acquiring more robust and durable gaylords which would not get damaged easily, thereby reducing their replacement rate. These gaylords are shipped back to Seagate for reuse, and then recycled when they become damaged beyond repair. In December 2014, to see if the gaylord replacement rate could be further improved, Seagate’s Operations, Quality and Material teams got together to review the various gaylords available in the market, and assessed them on their design, material and performance.

Based on the results of the review, the company decided to switch to another supplier that could provide gaylords with impact strength that was 33% higher than the gaylords it purchased the previous year. This switch to the new gaylords is expected to lower the replacement rate even more and is estimated to allow Seagate to cut down 8.5 tonnes of plastic packaging waste per year.

Other environmental initiatives

Apart from taking measures to reduce packaging waste, Tetra Pak also looked for ways to contribute to environmental protection through educating members of the public on recycling used beverage cartons (UBCs). For example, Tetra Pak set up a booth at the Clean & Green Singapore Carnival 2015 to show consumers how they could prepare UBCs for recycling and how polyethylene-aluminium boards, which can be used to make rooftop sheets, were created from UBCs.

At the event, the company also jointly organised a Colouring Contest with NEA, using recycled paper made from UBCs. On World Water Day 2015, Tetra Pak organised a workshop to demonstrate how UBCs could be upcycled into useful items.

In another initiative, Tetra Pak conducted a recycling drive to promote the recycling of UBC and e-waste with IKEA and POKKA. Deer-to-deer collection of UBC and e-waste was carried out during the recycling drive that was conducted on 17 January 2015. Ultimately, 0.064 tonnes of UBC and 0.96 tonnes of e-waste were recycled.
ABBOTT
Abbott has long been in the business of life, creating more possibilities 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’s nutrition manufacturing facility in Singapore is the largest nutritional investment and is the first nutrition plant in Asia. This state-of-the-art facility offers world-class levels of safety and process control throughout the manufacturing and distribution process.

BONCAFÉ INTERNATIONAL PTE LTD
Bencafé International Pte Ltd is a home-grown coffee company which was founded in 1964 by Mr Werner Ernst Huber. Over the years, Bencafé has become a leading gourmet coffee manufacturer and supplier in South-east Asia and the Middle East, with internationally renowned hotels, resorts, airlines, restaurants and food service establishments making Bencafé their brand of choice. Bencafé has adopted a green approach in every stage of its manufacturing process, since the start of 2007. After signing the Singapore Packaging Agreement in mid-2007, the company has been continually looking for opportunities to reduce, reuse and recycle waste.

BONCAFÉ INTERNATIONAL PTE LTD
Bencafé packs its coffee products in polyethylene-aluminium packaging material. Sometimes, packaging waste is generated when sealing defects occur or packaging is damaged during the automated coffee packing process. Packaging waste also occurs when the product has to be reworked or has expired. Previously, Bencafé would send such packaging waste for disposal at the incineration plants. In March 2015, Bencafé started the collection of this polyethylene-aluminium packaging waste for recycling.

Through this initiative, Bencafé estimates that it will be able to recycle 1 tonne of polyethylene-aluminium packaging waste per year. In 2014, Greenpac began working on an initiative to re-engineer the packaging for the VAVE M220 F12 medical instrument. Previously, the medical instrument would be packaged in a wooden crate for shipment to clients. Greenpac designed a new packaging solution which utilised a combination of a cardboard carton box, protective polyethylenes (PE) foam and a soft collapsible, supporting structure made of plywood.

The changes have resulted in a 35% nett decrease in weight per unit from 40kg to 26kg, translating to 0.24 tonne less packaging material used and $1,275 savings in material costs per year. Not only is the new packaging lighter, it is also more compact (leads to lower freight costs when shipped overseas) and takes less time to crate and unpack the medical instrument.

GREENPAC (S) PTE LTD
Greenpac (S) Pte Ltd was started in 2002 with the mission of providing its clients with innovative and holistic packaging solutions which can help them maximise cost savings and minimise their impact on the environment.

The company is committed to conducting its business in an environmentally responsible manner with a strong commitment, actively pursues environmentally-friendly means to meet its organisational goals, such as working with suppliers who adopt green practices and procuring materials which are sustainable.

For 5 more times before becoming damaged due to wear and tear, Ha Li Fa found another opportunity to reduce packaging material usage by getting its suppliers to replace the use of carton boxes and kraft papers with reusable plastic trays for transportation of products to its factory.

In another initiative, Ha Li Fa dispensed with the use of sticker labels for its client’s house brand products and instead printed the product information directly on the plastic packing films instead. The company also reduced the size of the plastic carrier bags used to transport its vacuum-packed fish ball products to supermarkets, thereby bringing down the weight of each bag from 1kg to 720g.

With the above four initiatives, the company estimates that it can avoid a total of 5 to 10 tonnes of packaging waste and save about $13,530 in material and disposal costs.

Other environmental initiative
In an effort to cut down wasteful usage of hand towels in the washrooms within its premises, Ha Li Fa put up a message on the disposable hand towel dispensers to remind users to minimise its usage. This initiative reduced the average numbers of hand towels used per day from 42 to 29, thereby avoiding 3.08 tonnes of paper waste per year.
HEWLETT-PACKARD (SINGAPORE) PTE LTD

Hewlett-Packard (Singapore) Pte Ltd (HP) is an information technology company which develops and provides computer hardware components. The company first started operations in Singapore in 1970 and has become a leading presence in the technology market, serving local, regional and global customers and steering the company’s innovation with 16 facilities.

HP 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.

**MEASURES TO REDUCE AND RECYCLE PACKAGING WASTE**

Previously, HP used to pack 50 pieces of its HP J3000 Drive Magazines (DMAGs) in a 7.4kg corrugated cardboard box lined with protective foam made of virgin plastic. The box of DMAGs would then be placed on a 43-inch by 33-inch wooden pallet for shipment to its clients. In March 2015, HP instituted the following changes to its packaging used for the 50-pack DMAGs:

i. Reduced the overall amount of protective foam used from 7.3kg to 3.4kg, and introduced cardboard partitions to separate the DMAGs;

ii. Replaced the 100% virgin foam with PE foam containing 65% of post-consumer recycled material;

iii. Reduced the dimensions of the wooden pallet used from 43 inches by 33 inches to 40 inches by 24 inches.

This initiative resulted in a nett reduction in the total weight of the packaging from 26.4kg to 24.3kg, thus enabling the company to cut its packaging material usage for the 50-pack DMAGs by 0.23 tonne per year.

HP also used to dispose of the polyethylene-aluminium packaging (such as packaging bags, sheet and film) which came with the parts delivered by its suppliers. However, from January 2015 onwards, HP started collecting the polyethylene-aluminium packaging waste for recycling and estimates that about 5.8kg of polyethylene-aluminium will be recycled annually.

**KIM GUAN GUAN COFFEE TRADING PTE LTD**

Established in 1988, Kim Guan Guan Coffee Trading Pte Ltd (KGG) has its simple beginnings in supplying traditional coffee powder (also known as ‘Nanyang Coffee’) to small beverage outlets such as coffee shops. Over the years, KGG has grown into an integrated company that imports, roasts, packs and supplies traditional ground coffee and tea powder to nearly 95% of its coffee business operators in Singapore.

KGG has adopted a green approach in every sector of its manufacturing process since early 2014. The company is constantly looking out for new strategies that will help to protect the environment and now, as a signatory of the Singapore Packaging Agreement, it is further motivated to step up its 3R efforts.

**MING FAI GROUP**

Founded in 1980 and listed on the Hong Kong Stock Exchange (HKSE: 3828) in 2007, Ming Fai Group is an international enterprise which supplies quality products to customers in the hotel, airline and personal care industries. The company carries a comprehensive line-up of internationally renowned brands of toiletry products including Lamen, Aquascutum, Molten Brown, Borghese and Aigner. For the hotel industry, Ming Fai Group’s product offerings extend through the entire hotel operation with catering utensils, kitchenware, furniture, room electrical appliance, room supplies, front desk items, washing equipment and other hotel supplies as required by its customers.

**KIM GUAN GUAN COFFEE TRADING PTE LTD**

In June 2014, KGG reviewed the plastic packaging used for its 280g service pack of coffee powder and found that it could reduce its thickness from 180 microns to 73 microns, without compromising the quality of the packaging. The use of thinner packaging material also resulted in a reduction in packaging weight from 7.2kg to 5.2kg per service pack, translating to annual savings of 4.5 tonnes of plastic packaging material and $5,000 in related packaging costs.

In March 2015, KGG began another initiative which was to collect polyethylene-aluminium and polypropylene packaging waste from its customers who were interested in contributing to the recycling process.

**MING FAI GROUP**

In September 2014, Ming Fai Group undertook an initiative to improve the design of the packaging of the dental kits and shaving sets for one of its clients, so that less material would be used. The company removed the plastic sticker labels that were originally pasted on the plastic packaging for the dental kit (containing toothbrush and toothpaste) and shaving set (containing razor and shaving cream). New product descriptions are printed directly on the plastic packaging instead, thereby enabling the reduction of about 0.43 tonnes of plastic sticker labels used yearly and translating to annual material cost savings of $5,190.

In another initiative, Ming Fai Group switched from using paper boxes which were made of purely virgin material to paper boxes with 70% recycled content to pack the hotel amenities (such as soap, dental kits, shaving sets, comb, bath salt, nail clipper, etc.) for one of its clients.

**Other environmental initiative**

KGG proactively encourages its staff to undertake waste minimisation projects, in its effort to build a waste reduction culture within the company and communicate to its suppliers and partners on its commitment to the SPA and environmental protection.
MERIT AWARD WINNERS

SUBWAY SINGAPORE DEVELOPMENT PTE LTD

SUBWAY® is an American quick service restaurant chain which serves customised sandwiches and salads. The company is currently one of the fastest growing franchises in the world, with over 44,000 restaurants in 110 countries (as of September 2015), of which 117 are located in Singapore.

SUBWAY®, best known for its sandwiches, entered the fruit juice business in 1981, and in Singapore would pack all their sandwiches, including the smaller 6-inch sandwiches in an 18.5-inch long bag. In July 2016, a shorter 11-inch long plastic bag was introduced in all stores across the island to specially cater for the smaller 6-inch sandwiches. Through this initiative, Subway Singapore Development Pte Ltd expects to be able to reduce the usage of about 5.37 tonnes of plastic packaging per year and enjoy savings of $14,768 per year in material costs.

SUNFRESH SINGAPORE PTE LTD

Sunfresh Singapore Pte Ltd (Sunfresh) entered the fruit juice business in 1998, producing, merchandising and trading blended fruit juices across the Asia-Pacific region. The company has greatly expanded its production, merchandising and trading activities so as to protect the environment and health as well as the world’s natural resources.

 measure to reduce packaging waste

In June 2014, Sunfresh Singapore Pte Ltd invested in a new fruit juice extractor which provides an average 5% additional juice during fruit juice production. This means that 9% less oranges would be needed to produce the same yield, and 27 fewer cardboard bulk bins would be required to transport and store the oranges. With the reduction in the number of bulk bins used, the company expects to be able to save about 4.55 tonnes of paper packaging material per year, translating to $5,700 per annum in material costs. In addition, 197.1 tonnes less orange peel waste is generated per year, as fewer oranges are consumed in the fruit juice production process.

TOSHIBA TEC SINGAPORE PTE LTD

Toshiba TEC Singapore Pte Ltd designs, builds and provides turnkey original design manufacturing (ODM) and original equipment manufacturing (OEM) solutions for Fortune 500 companies worldwide as well as for small and medium-sized enterprises.

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.

Measure to reduce packaging waste

Previously, one of Toshiba TEC’s supplier in Batam would deliver stamping parts to its factory using wooden pallets, with each pallet carrying 44 boxes of such parts. As a result, a total of 191 wooden pallets were utilised yearly and these wooden pallets would be sent for disposal after a single use.

In December 2014, Toshiba TEC worked with its supplier to replace the wooden pallets with poly-pallets for the shipment of stamping parts. These plastic pallets offered the following two advantages over the wooden pallets:

i) they were reusable up to 50 times; and

ii) they had higher strength performance and can take heavier loads, with each plastic pallet being able to carry up to 112 boxes of stamping parts.

After the switch, only about 15 plastic pallets are used in a year compared to 191 wooden pallets previously. This initiative is therefore expected to reduce the amount of wooden packaging waste generated at Toshiba TEC’s factory by 346 tonnes per year.

Measure to reduce packaging waste

Thong Siek reduced the size of the plastic packaging for its Fishball products from 208mm x 180mm to 208mm x 147mm. This resulted in a reduction in the overall weight of the packaging from 6g to 5.4g. Furthermore, the cost of producing this packaging was lowered from $0.06/piece to $0.046/piece. The initiative is expected to help the company avoid $0.22 tonnes of plastic packaging material per year and reap material cost savings of $6,000 annually.

In another initiative, Thong Siek reduced the size of the paper sticker labels used on all its carton boxes from 101mm x 165mm to 87mm x 70mm. Through this effort, Thong Siek estimates to be able to decrease its paper material usage by 0.82 tonne per year, translating to a material cost savings of $5,000 annually.

STICKER LABELS USED ON ALL BOXES

...
PLATINUM AWARD

PLATINUM AWARD

WINNER

NESTLÉ SINGAPORE (PTE) LTD

As one of the pioneer companies to sign the Singapore Packaging Agreement, Nestléc has been proactive in seeking resource-efficient packaging solutions. Over the years, Nestlé has achieved a significant reduction in packaging waste by continually reviewing and making improvements to both its production processes as well as the packaging used for its products.

Nestlé’s packaging waste reduction initiatives in the past include reducing the dimensions of products and making changes to its packaging practices and production processes. Some of the initiatives are shown below:

i) Reduced the dimensions of corrugated carton boxes used to pack the local MILÖ® 900g and 1kg soft packs from 600mm x 370mm x 190mm to 470mm x 350mm x 190mm.

ii) Reduced the thickness of MILÖ® refill pouch for 900g soft packs from 315mm to 310mm.

iii) Reduced the thickness of its 1.25kg, 1.4kg and 1.65kg MILÖ® tin cans from 0.25mm to 0.22mm.

iv) Reduced the thickness of laminate used for its MILÖ® 900g pouch from 164 microns to 16 microns.

v) Reduced the thickness of laminate used for its NESCAFÉ® Original 3-in-1 Coffee stick pack from 82 microns to 48 microns.

vi) Eliminated the use of paper cartons to pack its MILÖ® 900g and 3-in-1 soft packs.

vii) Changed the packaging for its MAGGI® Chef’s Secret concentrated seasoning from a plastic tub to a plastic pouch.

viii) Changed packaging for MILÖ® 400g product from tin can to pouch.

ix) Eliminated the usage of corrugated board fitment in the carton boxes used to pack its NESCAFÉ® Original 3-in-1 Coffee products.

x) Increased the length of laminate packaging per reel to reduce the frequency of changeover of laminate reels required in the production processes for its MILÖ® Hi-Calcium, Easy Cool 3-in-1 sachets, and MILÖ® 3-in-1 sachets.

xi) Modified the production line of its MILÖ® soft pack to improve efficiency of operations by bringing down laminate losses from 6% to 1.2%.

Previous initiatives undertaken by Seagate include:

i) Introducing a protective layer of padding on the platforms of its automated packing conveyor system to reduce occurrences of damage on the packaging material, thereby reducing the amount of defective packaging that would need to be disposed of.

ii) Streamlining the processes of its production lines to reduce cross-site activities, so that less packaging would be consumed to transport partially finished products between manufacturing sites.

iii) Increasing the reuse rate of its shipping cassettes from 8 times to 11 times.
Here are some packaging waste reduction measures implemented by the company over the years:

i) Implemented a new practice for preparation of the cardboard packaging material for the printing process so as to reduce wastage of paper.

ii) Switched to a flying setup when changing the width of 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.

iii) Invested in new equipment so that PE trim could be recovered from one of its lamination machines, for reuse in the packaging production process.

iv) Implemented a standardised procedure to remove dust particles (which causes production defects) from the chilled roller whenever there is a temporary break in the lamination process, so as to reduce packaging material wastage.

v) 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.

The company introduced the following changes to the way it packed its overcaps for its products:

i) Removed the cardboard partitions, and utilising a U-shaped cardboard tray instead to hold the overcaps in place within each carton box.

The above changes resulted in 35,000 fewer carton boxes used to hold its overcaps and a nett reduction in packaging usage by 2.4 tonnes per year.
F&N FOODS PTE LTD

As part of its environmental corporate social responsibility, F&N Foods Pte Ltd conserves and protects global resources through prudent management of water, energy and material consumption in its operations.

Last year, F&N Foods Pte Ltd undertook the following measures to reduce the amount of plastic packaging resources used:

i) 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, with an estimated reduction of 3.16 tonnes of resin used per year.

ii) Reduced the weight of its Fruit Tree 2-litre plastic bottle from 100g to 85g, with an estimated reduction of 3.75 tonnes of polypropylene used per year.

BONCAFÉ INTERNATIONAL PTE LTD

Boncafé International started its green journey in 2007 and has not looked back since.

Past measures implemented by the company to reduce packaging waste include:

i) Reducing the thickness of the polyethylene-aluminium pillow package used to pack its ground coffee, from 120 microns to 100 microns.

ii) Reducing the length of same coffee pillow package from 31.5cm to 28cm.

iii) Cutting down the thickness of polyethylene material used to pack instant coffee for coffee vending machines from 140 microns to 100 microns.
With the provision of sustainable packaging solutions being at the core of its business model, Greenpac is constantly presented with new opportunities to improve the packaging resource efficiency of its clients’ products. Greenpac’s sustained efforts in reducing packaging waste have earned them the Gold Award every year since 2013.

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

i) Re-engineering the wooden crate used for transportation of the VAVE 5600/4600 medical instrument, such that it is 33% lighter in weight.

ii) Re-designing the wooden crate used for transportation of the VAVE 5600/4600 medical instrument, making it 21% lighter in weight than the original crate.

Since Ha Li Fa signed the Singapore Packaging Agreement in 2009, it has been implementing initiatives to reduce packaging for its products.

Some of the measures Ha Li Fa had taken in the past to reduce waste include:

i) Installing a packaging machine which allows less plastic packaging to be used.

ii) Effecting tighter control on the use of cleaning agents so that its usage was reduced from 20 drums to 4 drums per month, thereby cutting the amount of packaging waste generated as well.

iii) Dispensing with the use of pallets and shrink wrap for products to be shipped overseas.

iv) Salvaging used plastic pails to store its packed fishball products.

v) Salvaging used plastic pails from the local market vegetable wholesalers, and reusing these pails to store its packed fish ball products.

Eliminated the use of pallets and shrink wrap to ship products overseas

Use of pallets and shrink wrap to ship products overseas

Ha Li Fa had invested in a packaging machine which allows less packaging to be used

WAVE 5600/4600 medical instrument crate
Since 2014, HP has been seeking ways to reduce the waste it generates and has implemented several packaging reduction measures including:

i) Reducing the net amount of packaging materials used to pack its HP 3PAR MBOD Drive for delivery to clients, by changing its packaging method and re-designing the packaging components.

ii) The smaller dimensions of the new HP 3PAR MBOD Drive packaging also meant that the amount of wooden pallets used in transportation could be halved.

iii) Introducing a drink carrier bag with minimal plastic packaging material for takeaway drinks; SUBWAY® switched to using these carrier bags for single-cup takeaway drink orders instead of the standard two-cup drink carrier bags.

Some of the earlier initiatives implemented by the company include:

i) Reducing the thickness of the paper wrap from 33gsm to 30gsm, and reducing the size of the paper wrap.

ii) Replacing the disposable Veltone paper trays used to weigh ingredients (e.g., chicken and beef) for its sandwiches, with reusable plastic scoops.

iii) Introducing a drink carrier bag with minimal plastic packaging material for takeaway drinks; SUBWAY® switched to using these carrier bags for single-cup takeaway drink orders instead of the standard two-cup drink carrier bags.
GOLD AWARD
WINNER

SUNFRESH SINGAPORE PTE LTD

Since Sunfresh Singapore signed the Singapore Packaging Agreement in 2007, it has been a strong advocate of packaging waste reduction. The company firmly believes that reducing waste can not only lower the environmental impact of its operations, but also help save costs.

Listed here are some of the past waste reduction initiatives implemented by Sunfresh:

i) Decreased the proportion of corrugated cardboard boxes used from 20% to 5% so that about 97% of all Sunfresh products are supplied in plastic returnable trays.
ii) Used large carton bins instead of carton boxes to store oranges for production of orange juice, cutting paper wastage.
iii) Reduced weight of plastic cups supplied to airlines from 4.7g to 4.4g.
iv) Eliminated the use of secondary plastic liners for packaging of disposable cups for delivery to the airlines.

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

Listed here are some of the past waste reduction initiatives implemented by Thong Siek:

i) Reduced the size of the label sticker on the packaging of its Saito fish paste product from 123.5cm² to 80.8cm².
ii) 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.
iii) Reduced the height of the carton box used for delivery of tried products by 25mm.

Old filling machine with 1.2% rejection rate

Newly introduced filling machine with 0.4% rejection rate

Original label sticker (surface area: 123.5cm²)

New label sticker (surface area: 80.8cm²)
Toshiba TEC Singapore has been conscientiously looking for ways to improve its operations and practices so as to reduce packaging waste.

Past initiatives implemented by Toshiba TEC include:

i) Working with its local suppliers to use reusable plastic pallets instead of wooden pallets to deliver metal & plastic parts for its equipment, thereby reducing wood packaging waste by about 20.7 tonnes per year.

ii) Replacing the use of carton boxes with reusable plastic containers for the delivery of metal & plastic parts by its suppliers, thereby avoiding 4.24 tonnes of paper packaging waste per year.

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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.

Toshiba TEC SINGAPORE PTE LTD

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)*

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*please delete accordingly
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

i) 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.
ii) Contribute data on packaging materials consumed, packaging waste reduced and/or recycled, where available.
iii) 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.
iv) Develop and implement programmes to raise consumer awareness & educate consumers on the need to reduce waste from packaging.
v) Promote the Singapore Packaging Agreement within its organisation.
vi) Develop sustainable markets for reused/recycled packaging materials.

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