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Grand Hyatt Singapore Brings Sustainable Luxury to Life Through the Guest Journey

From purposeful arrival to mindful departure, sustainability is proven at every step

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INTRODUCTION

With the Go Green SG 2025 coming up in May, we are pleased to announce two activities that we would be promoting this year as part of Green in Future's contribution to this green movement:

1. Creative writing workshop on nature
2. Sustainability in paper mache art

Green in Future was proud to conduct green activities in support of Go Green SG in 2024 and we are looking forward to hosting a variety of activities this year to further Singapore's journey in becoming a green and climate-resilient nation. This year Go Green SG is also an official SG60 programme and hopes to create a bigger impact.

If you are interested in joining hands with us to achieve your sustainability goals, do reach out to us. We are available at:

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Grand Hyatt Singapore Brings Sustainable Luxury to Life Through the Guest Journey

From purposeful arrival to mindful departure, sustainability is proven at every step

Grand Hyatt Singapore has long stood at the forefront of sustainable hospitality. Well before environmental benchmarks became an industry standard, the hotel was already investing in long-term practices that care deeply for both people and the planet.

Since 2002, it has quietly championed solutions that reduce energy, water and waste. Many of which were invisible to the guest, yet fundamental to reducing environmental impact. In May 2025, following a transformative, multi-year redevelopment, the hotel reopened with renewed purpose as a **Grand Living Room and Wellness Haven in Orchard Road**. Here, every detail is intentionally designed to offer a stay that is restorative, refined, and rooted in conscious living.

“A key consideration in Grand Hyatt Singapore’s multi-year transformation is to design a meaningful guest experience that evokes a sense of total belonging, in terms of local immersion and environmental responsibility,” said Mr. Clyric Ng, Director of Engineering, Grand Hyatt Singapore. “From using 100 percent renewable electricity to implementing smart utilities and waste management systems, we strive to raise the benchmark for sustainable luxury without compromising on the Grand Experience.”

A Purposeful Welcome

The guest experience begins with intentional design and sustainable operations. In the lobby, refreshed garden views and a tranquil, cascading waterfall framed by repurposed stone offer an early reflection of the hotel’s commitment to thoughtful, sustainable design. Digital check-ins, wooden keycards and aluminium pens have replaced traditional amenities, eliminating over 10,000 single-use

plastic items annually. The entire hotel is powered by 100 percent renewable electricity through a partnership with Flo Energy. Smart systems optimise lighting and climate control, while water-efficient fittings contribute to the hotel's Green Mark Platinum certification.

A Dining Experience Rooted in Responsibility

Guided by Hyatt's philosophy, "*Food. Thoughtfully sourced. Carefully served*.", the hotel offers a culinary programme that embraces sustainable practices throughout its entire pipeline—from sourcing of ingredients to waste management. Over 80 percent of organic vegetables are sourced from Cameron Highlands and local farms, including eco Gardens and Plauts. Fifty-five percent of seafood is certified sustainable. The hotel was the first in Southeast Asia to introduce plant-based alternatives and continues to champion zero-waste cooking through responsible usage of all ingredients. Grand Hyatt Singapore is also the first hotel in the country to use Wisefins technology, which tracks the carbon footprint of each dish and provides valuable insights into its environmental impact. The hotel uses Nordaq water since 2019, which helps to reduce carbon footprint and eliminates plastic bottle usage within the restaurants. The new two rooftop gardens include a rich array of herbs, vegetables and fruits which apart from providing fresh sustainable ingredients also help to cool the ballrooms below and enhance the landscape.

A Circular System That Closes the Loop

A trailblazing feature of Grand Hyatt Singapore's food waste strategy is the fully automated and contactless WasteMaster 1000, which replaces the hotel's earlier waste management facility. This advanced system converts excess food into odourless, pathogen-free inert material while retaining up to 95 percent of its energy and nutrients. The nutrient-rich residue is then pelletised and used to feed locally cultivated tilapias at Metro Farm, as part of an aquaponics system.

In turn, the waste nutrients from the fish are filtered and used to fertilise crops at the hotel's rooftop herb gardens, producing healthy, pesticide-free greens that are harvested for the hotel's kitchens. This innovative, closed-loop system supports Singapore's 30-by-30 food resilience goal—reducing waste while nurturing sustainable, local food production.

Furthermore, they work with local brands to produce corporate gifts with a sustainability angle like the Peco reusable bags made with plastic bottles, Bynd Artisan stationary made with surplus leather and ChopValue phone holders made with recycled wooden chopsticks. The hotel employs **Hyatt EcoTrack** to meticulously monitor sustainability metrics encompassing greenhouse gas emissions, energy consumption, water usage, waste management, and recycling.

A Foundation of Quiet Innovation

In 2002, our sustainability journey began with the implementation of a Green Energy Management system, revolutionizing our central air-conditioning with a highly efficient 'Total System and Right Sizing Approach'. By 2011, we were the first hotel worldwide to install a gas-powered Tri-generation plant, supplying 30% of our electricity, heat, and cooling for laundry and air-conditioning. Newer technologies have since been introduced to enhance the hotel's efficiency in reducing carbon footprint, water usage, and total greenhouse gases. Since April 2023, the hotel has been operating on 100% renewable electricity following a partnership with Flo Energy, a local retailer that purchases REC (Renewable Energy Certificate) to offset the electricity they supply. A fully automated and customised in-house water bottling plant provides guestrooms and event spaces with purified water in reusable glass bottles eliminating all plastic bottles in the hotel. Rainwater will be collected forbiodiversity landscaping around the hotel.

Sustainability continues behind the scenes. LED lighting, regenerative elevators and rainwater harvesting reduce resource use. Kitchen dishwashers by Meiko and Granuldisk conserve water and energy while managing over 5,000 meals daily. Digital systems like MFC-Application replace paper-based food safety logs, and RFID technology enhances laundry efficiency. A new on-site bottling system launching in 2025 will eliminate single-use plastic water bottles across rooms and events.

A Stay That Leaves a Lasting Impression

Guests leave knowing their stay has supported a greater purpose. From clean energy and local sourcing to zero-waste dining and closed-loop systems, every element of the experience contributes to a more sustainable future. With GSTC certification and decades of leadership, Grand Hyatt Singapore continues to demonstrate how luxury and responsibility can co-exist—beautifully, meaningfully, and with lasting impact. This meaningful guest journey continues in May 2025 with the re-opening of the transformed Grand Wing, where guests can look forward to even more elevated experiences that are thoughtfully designed with people and planet in mind.

Additional Sustainability Opportunities For Meetings And Events At Grand Hyatt Singapore

The hotel aspires to make it easy for the guests to incorporate more sustainable practices during their meetings and events. The hotel events team provides many opportunities and the following options:

FOOD & DRINK

• Using refillable solutions for water rather than single-use bottled water. Additional self-service water or infused water stations are available.
• Offering beverages in glass bottles, cans, and tetra packs for ease of recycling.
• Discussing the best ways to reduce food waste, such as ensuring updated headcounts for each meal, opting for plated meals over buffets, selecting the Buffet of the Day when buffets make the most sense, leveraging the hotel restaurant for smaller groups, and eliminating overage guarantees in contract
• Designing plant-based (vegan or vegetarian) meals or switching some portions of the meal to be plant-based, in order to meet attendees' dietary considerations, sustainability priorities, and culinary preferences
• Discussing options for donating excess edible food or used décor/centerpieces from the event to a local charity

ENERGY & WASTE

• Providing event-specific environmental footprint information aligned with the Hotel Carbon Measurement Initiative (HCMI) and the Hotel Water Measurement Initiative (HWMI) methodology
• Coordinating the temperature of event spaces to reduce energy use while supporting attendees' comfort
• Supporting digital signage and offering Hyatt Apps to help enable a paperless meeting
• Offering notepads and pens at a central location rather than at every seat
• Offering meeting reports through the Planner Portal, reducing the need to print
• Coordinating carpools to and from the airport, and/or organizing public transportation information for attendees
• Suggesting lower-impact options for centerpieces and décor, such as plotted plants rather than flower arrangements, using digital backdrops instead of physical items, and alternatives to avoid single-use decorations like balloons
• Discussing options to replace physical giveaways with experiences, donations, or carbon offsets
• Advising on a process for collecting lanyards at the end of the meeting, for reuse in the future

AWARDS & ACCOLADES

2022 – 2024

• **Global Sustainable Tourism Council** – GSTC Industry Criteria for Hotels
• **Singapore Tourism Board** – Special Award for Sustainability
• **Tripadvisor** – Travellers' Choice Award
• **Building and Construction Authority Green Mark –** Platinum Certification
• **ISO14001 –** Environmental Management Certification System Certification
• **ISO22000 –** Food Safety Management Certification
• **National Environment Agency** – SG Clean Quality Mark

2021 – **2020**

• **Singapore Environment Council** – Eco F&B Certification – 10|SCOTTS, Pete's Place, StraitsKitchen
• **National Environment Agency** – 14th EcoFriend Award, Private Sector Category
• **Building and Construction Authority** – Green Mark Gold Certification
• **World Gourmet Summit** – Green Initiative Award

Andrew Wong

Andrew Wong brings over a decade of invaluable experience in finance and business to his current role as Director at TRIREC. With a diverse professional background and a wealth of international exposure from his career stints in Canada, Taiwan, and Singapore, Andrew has proven himself as a dynamic leader in the field.

Beyond his professional role, Andrew is the founder of the Little Environment Club in Singapore, connecting and nurturing Asia's Climate Tech community. His steadfast dedication to environmental sustainability has seen him earn a place on Gen.T's 2022 list of Leaders of Tomorrow Shaping Asia's Future. He holds a Bachelor of Commerce, a Graduate Diploma from McGill, and is a Chartered Professional Accountant with the Ordre des comptables professionnels agréés du Québec. Andrew remains actively involved with McGill University, where he serves as a judge and advisor for the McGill Innovation Fund, supporting emerging startups from the university.

What was the inspiration for you to explore sustainable energy sources and venture into decarbonisation?

I've always felt a drive to be involved with climate ever since I learned in university of the long-term effects of climate change. Knowing that such an existential issue was being brushed aside or outright ignored didn't feel right, but I didn't end up going in that direction for the start of my career. As I switched career paths to equity research with my time at CLSA Taiwan, I was lucky enough to get exposure to the decarbonisation theme when I started covering some solar energy and electric vehicle supply chain players. That's when I started to make the connection between the decarbonisation and the enormous economic opportunity that it presents. So, when I got the chance to the fully immersed in the decarbonisation space via TRIREC and venture capital, I jumped at the chance and never looked back. As part of my time at TRIREC, I continue to be inspired by all the hard-working founders in the space that are tackling gigantic problems with innovative technology and a whole lot of grit.

Could you share some of the qualities and goals TRIREC looks for when investing into sustainable startups and enterprises.

Entrepreneurial at heart, collaborative by nature - Having founded and sold multiple successful businesses, as entrepreneurs and operators ourselves, we understand the journey and challenges that founders face when building and scaling a business. We adopt a "founders-first" approach and believe in becoming more than just financial backers, but long-term partners that provide operational expertise, guidance, and network access.

At TRIREC, we are committed to standing by founders throughout their entrepreneurial journey, even in challenging times, as long as integrity and honesty guide their actions. We believe in providing unwavering support to our portfolio companies, recognising that flexibility and adaptability are key to long-term success. Our goal is to collaborate with entrepreneurs who share our values—integrity, transparency, and a passion for meaningful change—so that together, we can drive progress toward a sustainable and decarbonised future.

What advice would you give to young or new companies venturing into the nuclear energy realm? And how would TRIREC be able to help them?

Nuclear energy is difficult so be prepared for not only technology development challenges but

also the increased complexity of everything else that comes with building a business. Aside from the standard founder advice that we give such as talent sourcing, cash management, and etc. founders in the nuclear space need to be aware that success in this sector definitely involves a longer time horizon, so patience is key. Additionally, getting the correct partnerships in place are incredibly important as there will be multiple stakeholders involved in bringing a nuclear plant to fruition. Whether from the technology research perspective to public private partnerships for funding, nuclear is a space that requires a team effort. Having said that, there are incredible tailwinds that are supporting the industry across all fronts and there is an incredibly collaborative ecosystem is in place to support all players.

At TRIREC, we do our best to support our founders on their journey across all aspects from business development opportunities and introducing potential investors, to helping with strategic discussions and just being a sounding board for founders. As VCs, we help any which way we can because we know how challenging and long the entrepreneurship journey is.

How do you propose private sectors take advantage of the recently announced Budget 2025 and how urgent is the need for innovative solutions when deploying nuclear energy in Singapore?

Budget 2025 presents a significant opportunity for the private sector to accelerate investment in clean energy solutions, particularly in nuclear innovation. Companies should take advantage of available government grants and incentives to fund research and development in advanced energy technologies. The budget also emphasises sustainability, which means businesses that align their strategies with Singapore's net-zero ambitions will have access to various support schemes. Beyond financial incentives, private companies should also collaborate with research institutions and policymakers to shape a regulatory framework that enables the safe and efficient deployment of nuclear energy. As for next steps, we believe that Singapore should conduct in-depth research into the nuclear energy space and engage with solution providers across the industry. One key player worth noting is, Type One Energy - a promising fusion company that focuses on stellarator reactors. Given the world's deep thirst for clean baseload energy, Singapore could play a unique role by being a leader in the region and develop talent that will be crucial for the development of the industry. The government has indicated that detailed studies will precede any decisions on actual deployment. Historically, initial feasibility studies have taken several years; thus, we anticipate initial findings within the next one to two years, with subsequent developments depending on those results.

Briefly summarise the opportunities and challenges in scaling up nuclear technologies and production capabilities in Singapore.

Singapore's exploration of nuclear energy presents a strategic opportunity to diversify its energy mix and meet decarbonization goals as the country currently relies on largely on fossil fuels that are imported from overseas. The country also has the chance to become an advanced nuclear technology hub by increasing collaboration with current leaders in the nuclear space. Ultimately, large economic benefits could arise from growing the nuclear industry here in Singapore.

Conversely, scaling up nuclear technologies involves navigating technical, geopolitical, and societal challenges. The relative nascency of newer technologies both in the fission and fusion space means that there are still many technological risks and cost hurdles to be borne. Given Singapore's location in SEA, waste and environmental risks also pose a challenge to the country and its neighbours.

With global momentum growing in the nuclear sector, now is the right time for Singapore to explore partnerships, invest in R&D, and position as a key player in this emerging space.

Explain the future journey of nuclear power in Singapore, especially its transition to a low-carbon economy.

Singapore's willingness to explore nuclear power marks a significant shift in its energy strategy. As PM Wong pointed out, nuclear power could be a key component in diversifying energy sources, enhancing resilience, and reducing emissions. Fusion could be a game-changer for Singapore due to its enhanced safety, abundant fuel supply, low waste output, and high energy efficiency. While Singapore is still in the exploratory phase, its willingness to consider nuclear energy is a massive vote of confidence in the industry. With careful planning and the right investments, nuclear could play a crucial role in Singapore's transition to a low-carbon economy.

TRIREC is a Singapore-headquartered decarbonisation venture capital firm that plays a crucial role in driving sustainable investments and innovation. As the Director of Investments at TRIREC, Andrew has spearheaded strategic deals within the agriculture, mobility, and carbon market sectors, demonstrating his versatility and acumen in navigating complex markets.

Before joining TRIREC, Andrew was a writing analyst at CLSA's Taiwan equity research department, earning accolades for his contributions. He was instrumental in the team's recognition as the second-best auto parts and small-cap team in Taiwan by Asiamoney's 2017 Brokers Poll. His career also includes a stint at Deloitte in Montréal, where he advised a local mobility startup, providing valuable insights into the startup landscape.

Southeast Asian MSMEs Lead the Way in Sustainable Innovation

The growing awareness around sustainability is reshaping consumer behavior globally. Today consumers are not only looking for quality products, but also products that are produced in an environmentally responsible manner. This trend is creating new opportunities for businesses that prioritize sustainability in their offerings and operations.

The preference for sustainable products is increasingly evident across Southeast Asia as well. Consumers in the region are becoming more environmentally conscious and purchasing eco-friendly products. In Singapore, a public survey was conducted on the nation's decarbonisation journey by the National Climate Change Secretariat (NCCS) through REACH. Among the 580 respondents, 80% indicated that they would reduce usage of plastic bags and straws. Additionally, around 50% expressed a willingness to pay extra for products associated with higher greenhouse gas emissions during production.

While large organisations often have the resources to adopt sustainable practices, the transition can be much more challenging for Micro, Small, and Medium Enterprises (MSMEs). Limited resources, knowledge and access to green technology are the main barriers for them to implement sustainable business practices. MSMEs also loose the competitive edge over other organisations that have funds to invest in advanced technology and sustainability practices to attract customers.

Therefore, Singapore's government has introduced various support schemes to help businesses build new capabilities and grow sustainably. One such initiative is the Enterprise Financing Scheme (EFS), which provides businesses easier access to financing at different stages of their growth. Through EFS, companies can secure loans for green projects, working capital, fixed assets etc.

SKELAS Sustainable Business Incubation Program

Across Southeast Asia, Indonesia is increasingly embracing sustainable business practices. One notable example is Sentra Kreatif Lestari Siak (SKELAS), which launched the Siak Sustainable Business Incubation Program (KUBISA). The program helps up to 26 MSMEs to develop their creative business solutions that can improve the local economy while preserving nature.

Dapur Mempura and Pinaloka are examples of the success of the SKELAS incubation program in fostering MSMEs. Both businesses have benefited greatly from the incubation program, such as business mentoring, access to markets, and product development that have successfully grown into innovative and sustainable businesses.

Kemojo Cake is a healthy and gluten-free version made of mocaf and rice bran

Born in the midst of the 2020 pandemic, Dapur Mempura has a mission to revive the deliciousness of the Malay-style Komojo sponge cake. By using natural ingredients such as mocaf and rice bran, as well as hereditary recipes, Dapur Mempura's bolu Komojo is not only delicious, but also healthier and gluten-free.

Owner of Dapur Mempura **Santi Lestari** said, “It is becoming increasingly difficult for mothers to meet the needs of children who require special attention to food, such as my son who suffers from ADHD. We want to bring back the nostalgic taste of bolu Komojo that we used to enjoy as children, but with a healthier alternative for Indonesian families.”

Meanwhile, Pinaloka, a women's business group in Siak, focuses on processing Siak crown pineapple into various processed products, ranging from jams, syrups, to pastries. However, behind the deliciousness of its products, there is a bigger mission, namely peatland conservation. “Siak crown pineapple is not only planted as a food source, but it is also our way of preventing forest and land fires that often occur in peat areas. In addition to increasing the productivity of local farmers, its dense planting is also able to keep peatlands from drying out and remain viable for cultivation.” said Wulan Suci Ningrum as Pinaloka Representative.

Connecting Business, Culture, and Environmental Conservation

In addition to producing nationally competitive products, the manufacturing of products from Dapur Mempura and Pinaloka also uses a sustainable approach to boost the local economy. Both MSMEs actively involve workers as well as sustainable environmental conservation in maintaining the balance of nature.

Dapur Mempura has succeeded in reintroducing Riau culinary specialties to the younger generation through cooking demonstrations to 80 students from Pekanbaru high school. Meanwhile, it has also succeeded in sustaining the economy of Bunga Raya Village farmers in Siak by adding value to the utilization of rice bran, which is purchased at a price of Rp50,000 - 100,000 for 5 - 10 kg in one purchase because of its conversion into food raw materials. “Usually, the rice bran is used for chicken supplies that are removed by farmers from the processed rice. Now they can sell it back as raw material for food so that the selling value also increases and increases their income,” said Santi.

In the agriculture aspect, Pinaloka works with local farmers from Tanjung Kuras Village, Penyengat Village, Temusai Village and Lalang Village with a potential pineapple plantation area of 3,380 hectares, involving 33 farmers and 21 women to process pineapple products. They aim to involve 100 farmers by the end of 2024 and ensure that the average height of the peatland is 40 cm so that the land can be cultivated. “Empty peatlands are often overgrown with bushes that become fire hotspots due to their fibrous roots and thin leaves. To overcome this, we planted crown pineapples on the land to maintain soil moisture and intercropped them with other vegetation,” said Wulan.

Because of the forest and land fires in 2015, peatland cultivation now encourages young people to work together in farming in Siak District. Now, the peatlands are planted with various types of plants such as Pineapple, Durian, and Watermelon, all of which can prevent water evaporation due to extreme sun exposure.

The involvement of the local community and the sustainability of local agriculture has managed to balance the soil conditions of the peatland adjacent to the oil palm plantation, where many people visit the land more often to water the plants, thus maintaining soil moisture and preventing peatland fires.

Harvesting of the pineapple to make the Pinaloka juice

Expanding the Program through Collaborative Efforts

Skelas through Kubisa program is not only providing an incubator for Riau MSMEs but also finding new ways to collaborate. **Cerli Febri** representative from Skelas said, “We always support MSMEs to continue to innovate products and further collaborate with the community to answer environmental challenges around them. By creating added value from local ingredients, we encourage them to create a business model that can involve the growth of other MSMEs.”

For example, Dapur Mempura has collaborated with Pinaloka to make pastries such as pineapple tart, a household snack in Southeast Asia, which is usually enjoyed during festivities. “This collaboration started with Pinaloka's desire to present more diverse pineapple products. We started brainstorming interesting ideas until we came up with pineapple tart, and after some trial and error, we finally managed to combine the sweet taste of pineapple with the crunchy and savory skin,” said Santi.

By combining their expertise in baking and the best quality pineapple, both businesses see a big opportunity in the domestic and Southeast Asian market's interest in pineapple tart, which has become a staple snack especially during Christmas and Eid. “For business partners, we usually sell pineapple tarts because the processing is simpler, making it more manpower-efficient, while for consumers we usually sell pineapple tarts. One of them was the delivery of 50 kg of delicious pineapple tart for Bank Indonesia's national event,” said Wulan.”

The success of Dapur Mempura and Pinaloka not only benefits the local economy but also inspires other communities to adopt similar sustainable practices. By demonstrating the potential of agroforestry processing into value-added products, these businesses have helped create a more resilient and sustainable future for the people of Siak.

About Skelas

The Siak Sustainable Creative Center (Skelas) is a place and a forum for creative young people to pour out ideas to explore the superior potential of Siak Regency while maintaining the sustainability of its nature. Currently, Skelas has mentored 26 businesses from various sectors, such as three from fashion, 22 culinary businesses, and one education service, and continues to support the vision of green Siak in achieving the target of 1000 MSMEs/year and increasing creative economic efforts, which are the Regional Development Performance Indicators plan of the Siak Regency Government.
For more information, please visit https://skelas.org/

Heart on Wheels 2025: Food from the Heart's Third National Drive-Thru Surpasses Collection Target With Over 33,300 Food Items

● *A total of 16 car and bike clubs, along with members of the public, turned up in over 260 vehicles to donate nearly $125,000 worth of food items, showcasing the strength of community-driven giving.*

● *Surpassing the target of 28,000 food items, this year's collection will continue to support FFTH's food distribution programmes, including the Community Food Pack and School Goodie Bag initiatives, which are projected to reach an additional 3,500 lower-income households.*

Participants awarded certificates for their contributions at the event

The third edition of Heart on Wheels, a food donation drive-thru by Food from the Heart (FFTH) organised in partnership with Wearnes Automotive, took place on 1 and 2 March along Leng Kee Road. The event rallied 16 car and bike clubs, along with members of the public, who arrived in more than 260 vehicles to donate over 33,300 food items — surpassing its target of 28,000. Valued at close to $125,000, these donations will sustain FFTH's food distribution programmes.

Mr. Eric Chua, Senior Parliamentary Secretary and Member of Parliament for Tanjong Pagar GRC (Queenstown), graced the event alongside volunteers from Queenstown grassroots organisations. Together, they donated 1,000 kg of food (13,700 items), arriving in a show of community spirit with 24 carts filled with contributions.

Since its inception in 2023, the initiative has raised over 54,500 food items and $129,000 in donations across 2023 and 2024. With FFTH's aim to expand its impact, the event this year reinforces its role as a community-led movement that blends philanthropy with passion.

"At its core, Heart on Wheels is about mobilising the community, especially the automotive community, to take collective action," said **Robin C. Lee, CEO of Food from the Heart**. "We're deeply

grateful for the support from Wearnes Automotive, our corporate partners, and the wider community that have joined us in uplifting the lives of those in need through food over the past three years and, more importantly, fostering a culture of community building and sustained giving."

Chairman of FFTH Mr Ronald Stride, FFTH CEO Mr Robin C. Lee, Mr Eric Chua, MP for Tanjong Pagar GRC with volunteers from Queenstown Grassroots Organisations

Corporate Partnerships Driving Sustained Giving

Car and bike groups arrived in convoys, rallying behind the cause and showcasing the power of community-driven giving. Brands under WEARNES — including Aston Martin, Bentley, Bugatti, Ducati, Harley-Davidson, Jaguar, Lotus, Polestar, Renault, and Volvo — mobilised their corporate networks, clients, and employees to contribute to the initiative.

Volvo staff and clients took a hands-on approach by personally delivering School Goodie Bags to 50 students. Meanwhile, Planet Cooper, a community of Mini Cooper enthusiasts dedicated to social causes, has remained a strong supporter since the event's inception. Their continued involvement underscores their commitment to FFTH's mission, demonstrating how passionate communities can drive meaningful change alongside corporate partners. Through their support, the event has continued to grow in impact, helping to collect essential food donations — including rice, canned meats, and cooking oil — which will be distributed through FFTH's Community Food Pack programme and Community Shop network, directly benefiting families facing financial strain.

"Last year, a survey of our Community Shop beneficiaries found that 78% of them felt the impact of rising living costs. This year, with the revised monthly per capita income benchmark from $690 to $800, we aim to extend our support to an additional 3,500 households," added **Robin**.

FFTH has seen resounding success with its efforts in the past. In 2023 alone, the Community Food Pack programme supported almost 12,000 individuals and families each month, with 75% of beneficiaries reporting that FFTH's food support helped ease their financial burden. That same year, the School Goodie Bag programme provided food assistance to 1,680 students across 42 schools.

Heart on Wheels 2025 is also supported by the 'Sponsor A Food Bundle' digital campaign, which runs concurrently until 3 March and aims to raise $50,000 worth of food bundles. This initiative allows individuals and businesses to contribute even if they cannot attend in person, enabling donors to sponsor food bundles that provide essential support to families and students in need.

The BMW Riding Kakis Singapore motorcycle club arriving in convoy at Heart on Wheels 2025.

A Scalable and Sustainable Model for Corporate Philanthropy

Heart on Wheels sets a precedent for corporate partnerships that can move beyond one-off donations to create long-term, high-impact community engagement. The incorporation of beneficiary feedback into the food distribution programmes helps FFTH ensure that food aid is not only efficient but also relevant to community needs. The model is easily replicable for businesses looking to align ESG goals with meaningful corporate giving.

Looking ahead, FFTH plans to continue enhancing the quality and nutritional value of its food aid by 2027, increasing support by $5 – $8 per household to provide more substantial and nutritious offerings to beneficiaries. Continued community support will remain at the core of FFTH's mission as it strives to improve the well-being of individuals and strengthen Singapore's social fabric.

For more information on how to contribute, visit www.foodfromtheheart.sg.

About Food from the Heart

Food from the Heart (FFTH) is a charity founded in February 2003 by then Singapore-based Austrian couple Henry and Christine Laimer, who were inspired to channel surplus food from bakeries to families in need after they read an article about bread wastage. Today, FFTH is Singapore's prominent independent food charity with IPC status devoted to alleviating hunger through efficient distribution of food sustainably; and making a significant impact in food waste reduction. With the support of donors, food industry partners, and more than 10,000 volunteers, FFTH made a difference to the lives of more than 60,000 people throughout Singapore, distributing S$7.2 million worth of food in 2022. For more information, please visit https://www.foodfromtheheart.sg/.

Coastal Sustainability Alliance Signs Key LOIs and Showcases Singapore's Largest Electric Supply Boat at Singapore Maritime Week 2025

The Coastal Sustainability Alliance (CSA), an industry collaborative effort led by Kuok Maritime Group (KMG), today signed two Letters of Intent (LOIs) on Day 2 of the Accelerating Digitalisation and Decarbonisation Conference at Singapore Maritime Week (SMW) 2025. The first focused on prioritising using PXO's E-Supply Boat by key ship agencies during an upcoming trial, and the second focused on developing a multi-modal, multi-site marine charging infrastructure. These partnerships mark a significant milestone in advancing the adoption of e-vessels and supporting infrastructure, setting the stage for the fruition of CSA's vision to develop Singapore's next-generation coastal logistics ecosystem.

Representatives from leading ship agencies, marine service providers, infrastructure partners and the Coastal Sustainability Alliance (CSA), led by Kuok Maritime Group (KMG), come together in a show of commitment to maritime decarbonisation

"Milk Run" Trial with Shipping Companies for E-Supply Boat Adoption

KMG has signed an LOI with seven major ship agencies and one chandler: GAC Singapore, Horizon Shipping Agencies, Inchcape Shipping Services, Johnasia Shipping, RMS Marine & Offshore Service, Sinoda Shipping Agency, and Wilhelmsen Port Services — to utilise the services of the PXO E-Supply Boat Voltai for deliveries to seagoing vessels in a one-year trial. The trial will prioritise lightboat operators making multiple deliveries, known as a "milk run", to improve operational efficiency, lower carbon footprint, reduce marine traffic congestion and lower costs associated with operating electric vessels.

The trial addresses the growing pressure on merchant shipowners to reduce Scope 3 emissions, offering a commercially viable pathway for greener supply chain solutions. Each E-Supply Boat trip is expected to cut 0.5 metric tons of Scope 3 greenhouse gas (GHG) emissions per arrival of a merchant ship at the Port of Singapore. As the marine logistics industry pivots towards net-zero goals, the electrification pathway can result in an estimated reduction of 9,000 metric tons of GHG emissions

per month across 600 daily trips made by conventional supply boats. The findings from the trial will influence the development of future PXO E-Supply Boats, ensuring that they align with industry needs while advancing Singapore's decarbonisation goals.

Multi-Site, Multi-Modal Marine Charging Infrastructure

KMG has signed another LOI with Singapore and international companies: BeeCharge Innovation Group, Jurong Port, Pyxis, RExus Bioenergy, SP Mobility, and Wilhelmsen Ships Service – to provide charging infrastructure and facilities to support the appointed operator of the PXO E-Supply Boat *Voltai* during the "milk run" trial. This partnership will feature a multi-modal and multi-location approach featuring various charging infrastructure, including shore-based charging at key waterfront sites, and mobile charging powered by solar energy for on-demand needs. As the charging infrastructure will operate on a common technical standard, it will be critical in accelerating MaritimeSG's green transition by enabling efficient charging turnaround for e-vessels and minimising operational downtime.

Mr Tan Thai Yong, Managing Director and CEO, PaxOcean Group and Chairperson, CSA, said: *"The commitment by leading ship agencies and a chandler to prioritise the hiring of the PXO E-Supply Boat Voltai marks a fundamental shift in maritime logistics. Traditionally, supply boat operations have been conducted point-to-point, leading to inefficiencies and increasing emissions. Implementing the 'milk run' model consolidates multiple deliveries into optimised routes, benefiting all stakeholders by reducing unnecessary trips, lowering operational costs, and significantly cutting emissions. This initiative can transform legacy port logistics, setting the stage for an industry-wide shift toward sustainable and efficient operations.*

On the charging partnership LOI, he added, "*By bringing together various site owners and charging partners, we envision concurrent efforts contributing to Singapore's electric charging infrastructure along the coastline, eventually extending beyond our PXO vessels' operating bases. Over time, we hope to see more public charging infrastructure deployed strategically and decisively along Singapore's shoreline to support operations in the Western and Eastern anchorages*."

Kuok Maritime Group

Kuok Maritime Group (KMG) includes the PaxOcean Group (PaxOcean), Pacific Carriers Limited (PCL), PACC Offshore Services Holdings (POSH), Pacific Workboats Pte Ltd (PWPL), McPEC Marine & Offshore Engineering Pte Ltd (McPEC) and KSL Maritime Ventures (KMV). KMG offers an integrated suite of maritime solutions to businesses globally. It serves the maritime value chain from provision of offshore maritime and subsea support services, shipping and transportation, newbuilding, harbour and terminal to wage services as well as turnkey solutions for marine, offshore, energy, market in engineering, procurement, construction, and commissioning (EPCC) to supporting start-ups offering technological and innovative solutions to the industry. The group also leads the Coastal Sustainability Alliance in Singapore, working with like-minded industry partners to build a sustainable next-generation maritime ecosystem.
Visit Kuok Maritime Group at https://kuokgroup.com.sg/businesses/#maritime.

PaxOcean Group

PaxOcean Group is a member of the Kuok Maritime Group (KMG), which is part of Kuok Group Singapore. PaxOcean owns and operates five shipyards located in Singapore, China and Indonesia. First established in 2007 in Singapore, PaxOcean offers a wide range of services covering integrated solutions, newbuilding, module fabrication, green recycling, repairs and conversion of conventional and renewable energy assets.
Visit PaxOcean at www.paxocean.com.

The Nature Conservancy Appoints Tamara Singh as Managing Director, Singapore, to Drive Regional Climate and Conservation Impact

The Nature Conservancy (TNC) announced the appointment of Ms Tamara Singh as its new Managing Director, Singapore and Senior Advisor, Regional Programs, effective 1 April 2025. She succeeds Mr. Thomas Brzostowski, who was Interim Singapore Country Director.

In this role, Ms Singh will lead TNC's efforts to drive climate action and conservation impact from Singapore, leveraging its strategic position as a hub for innovation, partnerships, science, and fundraising to accelerate climate and Nature-based Solutions (NbS) across Asia-Pacific and globally.

Ms Singh brings over two decades of experience in energy, finance, and sustainability, having worked at Centrica, BP, Deutsche Bank, and Macquarie Bank in London, New York, and Asia-Pacific. Since returning to Singapore in 2012, she has led digital transformation initiatives and sustainable finance initiatives in various capacities. She also advises on corporate transition towards the Sustainable Development Goals (SDGs) as a Sherpa for APEC's Asia-Pacific Financial Forum Sustainable Finance Development Network and is a member of the Global Finance & Technology Network.

Will McGoldrick, Regional Managing Director, Asia-Pacific at TNC, commented, *"Tamara's appointment strengthens TNC's ability to drive tangible climate action and conservation impact across Asia-Pacific. As we scale solutions to address the world's most pressing environmental challenges, her deep expertise in sustainable finance and proven ability to bridge the private and public sectors will be invaluable. Tamara's leadership will be crucial in accelerating our 2030 goals while reinforcing Singapore's position as a global conservation and climate finance hub."*

Tamara Singh, Managing Director, Singapore and Senior Advisor, Regional Programs at TNC, added, *"Joining one of the world's most respected conservation organizations at a time when the need for bold, science-driven climate action has never been more urgent is both an honor and a responsibility. TNC's collaborative approach, grounded in science and innovation, has made a tangible difference in tackling some of the planet's most pressing environmental challenges. I look forward to working alongside our partners to drive nature-positive solutions that protect our planet and its people."*

Ms Singh also works across industries to better the finance ecosystem and further enterprises through sustainable business practices. Appointed Sherpa to APEC's APFF Sustainable Finance Development Network, and the Global Finance & Technology Network, Tamara champions Corporate Transition towards attainment of the SDGs. She coaches leaders of organisations and advises start-ups navigating sustainability and scale.

TNC established its program in Singapore in late 2022 as a global center for innovation, partnerships, and science to scale up conservation and climate impact across the region and support Singapore in achieving its 2030 Green Plan. The program focuses on four key priorities: catalyzing NbS and carbon markets, fostering research collaborations, innovating impact finance solutions, and supporting regional corporate partnerships. In addition, TNC collaborates with other environmental non-profits in Singapore to pool resources, share knowledge, and build partnerships. Notably, in 2023, TNC joined seven other NGOs to form the Southeast Asia Climate and Nature-based Solutions (SCeNe) Coalition, accelerating high-quality, triple-benefit NbS projects across the region. For more information on its work in Singapore, read its Asia Pacific Annual Report.

About The Nature Conservancy

The Nature Conservancy is a global conservation organization dedicated to conserving the lands and waters on which all life depends. Guided by science, we create innovative, on-the-ground solutions to our world's toughest challenges so that nature and people can thrive together. We are tackling climate change, conserving lands, waters and oceans at an unprecedented scale, providing food and water sustainably and helping to make cities more livable. Working in more than 81 countries and territories, we use a collaborative approach that engages local communities, governments, the private sector, and other partners. TNC has been in Asia Pacific for almost 30 years, with projects in Australia, China, Hong Kong, Indonesia, Mongolia, New Zealand, and the Pacific Islands.

To learn more, visit www.nature.org

Geneco #Se7enbration: A Nation-Empowered Celebration of Powering Change in Singapore

Seven years, countless milestones and one unwavering mission: to power Singapore towards a cleaner, greener future. Geneco, Singapore's leading residential electricity retailer, marks its seventh anniversary this month, with #Se7enbration, a bold campaign thanking the nation for its support and to accelerate its sustainability journey.

From its inception in 2018, Geneco has grown from an electricity provider into a driving force behind Singapore's green transition, empowering households with smarter, cleaner energy solutions. This growth is built on championing energy solutions that empower individuals, households, and businesses to take charge of a cleaner, greener future.

As with Geneco's previous initiatives, #Se7enbration strengthens Geneco's commitment to customer centric sustainability aligned not only with the Singapore Green Plan 2030 but also the SG60 celebration that highlights nation-building efforts through community initiatives and shared values to shape our futures together. Recognised by the Energy Market Authority (EMA) as Singapore's No. 1 Residential Electricity Retailer, Geneco's success has been fuelled by the nation. This year, in appreciation of that support, Geneco seeks to give back to customers, communities, and partners, through seven transformative initiatives.

Lim Han Kwang, CEO of Geneco, said, "Our vision at Geneco has always been clear—to #PowerTheChange by empowering the community to drive Singapore's sustainable transformation. As we roll out #Se7enbration, in tandem with SG60, we do so with immense gratitude to our customers, and like-minded partners. Their trust has fuelled our journey, and we remain committed to making clean energy more accessible and enabling people with the tools to make a tangible impact on our sustainability journey as a nation. This is just the beginning; we're building a robust foundation for future collaborations that will continue to empower households and businesses to embrace a greener, better way of living and working."

In just seven years, Geneco has cemented its place as a household name, leading the charge in Singapore's electricity retail market. From the moment the sector was liberalised, Geneco recognised the opportunity to do more than provide power, embodied by their "Power The Change" brand purpose. It quickly scaled its capabilities to serve households and Small Medium Businesses (SMBs) in addition to their existing Commercial and Industrial customers. Geneco's customer-centric approach and pioneering initiatives saw the company serving 100,000 homes within its first year, towards becoming one of Singapore's preferred electricity retailers. Geneco has retained the title of Singapore's No. 1 Residential Electricity Retailer since EMA's public release on the market share in 2022, powering over 170,000 households to date.

Delivering Green Conscious Energy and Social Initiatives to All Singapore's Households & Businesses

Whether through groundbreaking initiatives like the Power Eco Add-On—Singapore's first-of-its-kind and only green customisable add-on for an electricity plan, which debuted in 2021— or its unwavering support for community-driven sustainability projects, Geneco has consistently gone beyond business to build a better future for all. From an additional $1 per month, customers can take charge of their sustainability efforts by abating carbon emissions from their power consumption by purchasing carbon credits or renewable energy certificates at varying levels. To date, the Power Eco Add-On has abated over 12,961,850kg of carbon dioxide, an equivalent to over 16,820 raintrees.

Geneco has long championed that real change comes from collective action. Through initiatives such as its Plant-A-Tree programme with National Parks Board, the company has exceeded its goal of planting 250 trees by 2025—having already planted 400 trees to date, and an additional 50 trees to be planted on the coming Earth Day, 22 April 2025. Looking ahead, it has renewed its commitment to planting a further 250 trees over the next five years, reinforcing its role to support NParks' One Million Trees Movement and shape Singapore's green future.

Beyond reforestation, Geneco continues to make bold investments in renewable energy. Its parent company, YTL PowerSeraya, invested over S$5 million in 2023 to expand its Solar Photovoltaic System from ~1MWp to a total of ~5MWp, increasing its total capacity fivefold. The company is also spearheading Singapore's 600MW hydrogen-ready Combined Cycle Gas Turbine (CCGT) at Pulau Seraya Power Station— a landmark S$800 million investment that positions Singapore's energy supply for a low-carbon future, and the first of such significant project awarded from the Request for Proposal (RFP) under EMA's new Centralised Process framework.

Its expanded capabilities have enabled Geneco to support the technology industry's clean energy transitions—exemplifying how companies across the business landscape can adopt a more sustainable outlook that drives net zero carbon emissions while minimising environmental impact and, ultimately, creating technology that inspires progress and protects the planet.

Such investments towards building a greener and more low-carbon future also extend beyond delivering electricity. From partnering with a leading home insurer to protect damaged home contents and renovations, 24/7 HomeCare Services, Bill Relief Protector, and more, Geneco's strategic partnerships and initiatives are both impactful and diverse.

Geneco #Se7enbration: Empowering Customers with New Innovative Plan, Complimentary Green Add-On and Refreshed Rewards Program

To mark its seventh anniversary, Geneco is rolling out a suite of exclusive customer rewards and innovative energy solutions designed to empower households with greater energy savings and, even more conscious consumption habits.

The all-new **Get It 7 To 7** plan, launching on 17 April 2025, offers two-tier pricing, designed to encourage households to reduce energy consumption during the peak demand period to contribute to a more stable and efficient power grid. Aligned with the Energy Market Authority's Residential Demand Responsive (R-DR) initiative, this new electricity price plan sees lower-cost electricity consumption during lower demand periods between 7pm and 7am, compared to higher demand periods of 7am to 7pm.

To further reward customers, Geneco is offering seven lucky winners a full year of free electricity with a 24-month plan, including the Get It 7 To 7 plan, while those who opt for the Power Eco Add-On will enjoy first seven months of complimentary green abatement.

The company has also refreshed its rewards programme, introducing a full digital experience with exclusive partner perks, named '**Geneco Rewards'**. Formerly known as 'PowerUp Rewards', this new programme further enhances their customer-centric approach by offering customers exclusive deals and promotions, featuring a seamless interface, and is only accessible via the Geneco Mobile App from 17 March. To celebrate its launch, 100 customers each week will have the chance to win a **$7 eCapitaVoucher** over a period of seven weeks until 30 April 2025.

Geneco's #Se7enbration is more than just an anniversary; it's a declaration of what's next in its efforts to drive change through innovation, collaboration, and action. The company remains committed to ensure Singapore's future is not just powered, but empowered—where every home, business, and community plays a role in building a cleaner, greener, and more sustainable nation.

For more information on Geneco's Se7enbration campaign, visit: www.geneco.sg/se7enbration

About Geneco

Geneco, a brand of YTL PowerSeraya, is a licensed leading electricity retailer that sells electricity to homes, businesses, and industries across Singapore. Its brand purpose 'Power The Change' steers its commitment to building a sustainable and accessible energy future for the communities it serves. Geneco is Singapore's Number 1 Residential Electricity Retailer and has launched the Power Eco Addon – Singapore's First and Only customisable green add-on for an electricity plan in 2021. This innovative add-on will continue the brand's momentum as one of the key enablers of sustainability in Singapore.

Geneco's parent company, YTL PowerSeraya, is one of Singapore's largest power generators, with over 50 years of experience in power generation. Geneco's eco-friendly ethos stems from the United Kingdom, where Geneco UK - part of the wider YTL Group of companies – has been acclaimed for its work in recycling and renewable energy.

To learn more about Geneco and its Power Eco Add-on, please visit www.geneco.sg and www.geneco.sg/power-eco

Geospatial led solutions build the foundations for better decision-making

Geo Connect Asia 2025 paves the way for turning technology into solutions

The 5th edition of **Geo Connect Asia** opened on April 9th 2025, with a record number of participants on the show floor and supporting conferences.

Following the theme of *Transforming technology into solutions: underground, land and sea to sky*, the event projected 100 companies on the show floor, with applications ranging from autonomous vehicles for marine and aerial use through to surveying and satellite observation technologies. Around 3000 visitors and delegates attended.

The two-day Geo Connect Asia was held in Sands Expo & Convention Centre in Singapore. The growing influence of AI, robotics, autonomy, data interoperability and security across industries was the main theme of the Geo Autonomy Summit.

Leading speakers included:

- Will Cavendish, Global Digital Services Leader, Arup
- Philipp Kandal, CTO, Grab
- David Foo, Deputy Chief Executive Operations and Ops-Tech / Chief Data Officer, Maritime and Port Authority of Singapore (MPA)
- Ms Salote Viti, Chairwoman, Pacific GIS & Remote Sensing Council

Seven supporting conference stages welcomed 177 presenters; these included the return of Digital Underground Connect and the respective launches of the Digital Construction Asia Forum and the APAC Earth Observation Forum.

The growing regional impact of the event was reflected by group pavilion support from Sabah, Singapore and Thailand.

Commenting on the development of Geo Connect Asia, Rupert Owen, Co-founder of Geo Connect Asia said, ''We are delighted to expand the footprint of the region's geospatial knowledge base and share common experiences. The vulnerability of ASEAN countries to climate-induced challenges, the dynamics of urbanisation and the need to actively manage limited resources demands response from planners, operators and industry specialists. Supported by the latest geospatial solutions there is a growing belief in technology-enhanced answers to some of the most pressing challenges. Sharing these experiences and providing best user case experience is the focus of Geo Connect Asia as the regional community hub.''

Supported by the Singapore Land Authority, Geo Connect Asia was organised by Montgomery Events Asia.

NCGS2025 Concludes with Goals to Mobilise Climate Leadership, Finance and Governance for a Resilient Future

The National Climate Governance Summit 2025 concluded with a powerful mandate: accelerate climate action through strengthened leadership, innovative financing, and robust governance frameworks to build a low-carbon, resilient future.

Held from 7–11 April at Sasana Kijang, Kuala Lumpur, the summit gathered global leaders, policymakers, and industry practitioners to forge actionable strategies for climate resilience and sustainable development. The five-day event, organized by Climate Governance Malaysia (CGM), delivered comprehensive roadmaps for climate resilience, including global transition pathways, robust reporting, sustainable finance, corporate accountability, and biodiversity-focused strategies to achieve net-zero goals.

Keynote speakers including Minister of Natural Resources and Environmental Sustainability Nik Nazmi Nik Ahmad (centre), along with the Climate Governance Malaysia (CGM) board members, and Emily Farnworth, the Executive Director of Climate Governance Initiative (CGI) and Co-chair, Global Future Council on Climate and Nature Governance, World Economic Forum (six from the left) at the National Climate Governance Summit 2025. (Image credit: Climate Governance Malaysia)

The Urgency and Unity in Driving Systemic Change

Financial leaders and regulators discussed the concrete actions needed to take to tackle the emerging, systemic challenges. The evolving role of finance, regulatory shifts, and empowered board leadership emerged as key to mobilising capital and managing climate-related risks and opportunities.

Discussions also centered around how improved data systems, policy innovation, and inclusive leadership can align sustainability goals with economic growth and effective governance.

Datuk NK Tong, Co-Founder and Group Managing Director, Bukit Kiara Capital, one of the NCGS2025 esteemed speakers remarked, “NCGS was an amazing collection of thought leaders, passionate about sustainability and the world we live in. I was glad that the topic of nuclear energy was mentioned on numerous occasions, besides in my panel discussion, as a clean, safe, affordable and sustainable solution to decarbonization.”

Workshops and Masterclasses Deepen Corporate Climate Accountability and Biodiversity Strategy in a Shifting Global and Reporting Landscape

The summit addressed critical challenges in corporate climate reporting, with sessions led by Minority Shareholders Watch Group (MSWG), ClientEarth, and others tackled pressing challenges including greenwashing and inconsistent reporting standards. These discussions established a foundation for more transparent, enforceable, and robust sustainability reporting practices, supporting regulatory clarity and market accountability.

Additionally, practical implementation was also a key focus, with masterclasses and workshops from Association of Chartered Certified Accountants (ACCA) on International Sustainability Standards Board (ISSB) standards, and Environmental Resources Management (ERM) on transition finance strategies, equipping over 1,200 participants with essential tools and regulatory insights.

Broader summit discussions explored themes such as corporate climate accountability, biodiversity risk disclosures, and board-level oversight, underscoring the need for aligned governance across sectors and the integration of climate priorities into national and regional economic strategies like ASEAN’s Sustainable Development Goals (SDG) roadmap.

An important dimension of the summit was the recognition of biodiversity as a crucial business consideration. The Zoological Society of London (ZSL) workshop on *Why Biodiversity Matters to Businesses* highlighted biodiversity loss as a material financial risk. The session also introduced participants to innovative tools, including ForestIQ and Sustainability Policy Transparency Toolkit (SPOTT).

Participants also explored compliance requirements, such as the EU Deforestation Regulation and Taskforce on Nature-related Financial Disclosures (TNFD) guidelines, while discussing investment mechanisms, like impact bonds and community-based conservation approaches, framing nature as a key governance and financial consideration.

Dato’ Tengku Marina, Council Member of CGM, stated, “The impactful dialogues on sustainable finance, innovative policy frameworks and insightful climate governance perspectives highlighted the urgency and opportunity in climate action.”

She added, “Kudos to all presenters at the 2025 NCGS for their valuable contributions and to Climate Governance Malaysia for their exemplary leadership and tireless efforts in bringing together such a dynamic and solution-driven forum.”

Building Future Climate Leadership: New Initiative *CGM Academy for Youth* Launch

A significant announcement at the summit was the launch of the CGM Academy for Youth, an online course aimed to equip young professionals beginning their sustainability journey, in Q2 2025.

As a collaborative initiative between CGM and Pepper Labs, the programme will provide a robust foundation in climate governance and sustainable action, equipping participants with the skills needed to drive real impact.

Dr Gary Theseira, Chairman of CGM, explained, “The launch of the CGM Academy for Youth marks a significant step in our commitment to cultivating the next generation of sustainability leaders.”

“Through this initiative, we are dedicated to imparting the critical knowledge and skills necessary to advance robust climate governance and foster sustainable development,” he further adds.

NCGS2025 brought together 3,451 in-person and virtual attendees from across sectors and regions, including participants of key side events such as the Townhall, AIGCC Roundtable, and Regional Finance Hub. Across five days, 94 expert speakers shared insights and best practices to accelerate the transition to a low-carbon, nature-positive economy. The summit featured 32 interactive sessions, comprising 8 panels, 11 masterclasses, and 13 workshops, and was made possible with the support of 13 partner organisations.

The summit has firmly established itself as a pivotal moment in Malaysia’s climate journey, moving beyond dialogue to catalyse decisive action. With emphasis on robust governance, empowered boards, and inclusive solutions, NCGS2025 has charted a course toward sustainable growth for generations to come.

About Climate Governance Malaysia

Climate Governance Malaysia (CGM) is the Malaysian chapter of the World Economic Forum's Climate Governance Initiative, dedicated to equipping corporate boards with the knowledge to address climate-related financial risks. As a regional leader in climate governance, CGM supports non-executive directors in integrating climate considerations into business strategies, policy advocacy, and corporate decision-making. Since its launch in 2019, CGM has engaged thousands of board directors through thought leadership, industry reports, and events, including the flagship National Climate Governance Summit (NCGS). Recognized in Malaysia’s national policies and Bank Negara Malaysia’s Annual Report, CGM actively collaborates with regulators, government agencies, and international partners to drive climate-conscious business practices. It has also played a key role in establishing the ASEAN Climate Governance Network and shaping corporate sustainability efforts in the region. For more information, visit https://www.cgmalaysia.com/.

Signify Brightens 770 Homes in Toa Payoh with Energy-efficient Lighting, in partnership with People's Association - Toa Payoh East Community Club

- *To encourage the usage of energy-efficient lighting, Signify donated over 2,000 Philips LED bulbs to 770 households in Toa Payoh, with Toa Payoh East Community Club playing a key role in engaging residents and driving participation in the initiative*
- *Mr. Saktiandi Supaat, Adviser to Bishan-Toa Payoh GRC Grassroots Organisations, led the light bulb distribution on March 23, with a second round scheduled on April 12*
- *The transition from conventional to energy-efficient LED lighting could reduce energy consumption by up to 90% for residents.*

Toa Payoh East Community Club and Signify brightening the homes in Toa Payoh

Signify (Euronext: LIGHT, formerly Philips Lighting), the world leader in lighting, partnered with Toa Payoh East Community Club to donate more than 2,000 energy-efficient Philips LED light bulbs to 770 low-income households across three blocks in Toa Payoh East on 23rd March 2025.

To encourage residents to adopt energy-efficient lighting products, Toa Payoh East Community Club identified eligible units and engaged residents in the initiative. Each household received three light bulbs to brighten their homes, which would also help to reduce energy consumption.

Mr. Saktiandi Supaat, Adviser to Bishan-Toa Payoh GRC Grassroots Organisations, joined Mr. Chandra Vaidyanathan, Managing Director of Signify Singapore & President of Consumer Commercial AMEA (Asia, Middle East & Africa), along with a team of Signify employees and volunteers in the distribution of the light bulbs and interacted with the residents.

To minimize the environmental impact of e-waste, the old bulbs were collected and recycled. This CSR initiative was scheduled over two weekends, with the first session on March 23 and the second on April 12.

“We are truly grateful to Signify Singapore for their donation to support the low-income households in Toa Payoh. This initiative will have a significant impact on the lives of residents, and we commend Signify for their commitment to creating a brighter and more energy-efficient environment for our residents”, said Mr. Saktiandi Supaat, Adviser to Bishan-Toa Payoh GRC Grassroots Organisations.

Commenting on the initiative, Mr. Chandra Vaidyanathan, Managing Director of Signify Singapore & President of Consumer Commercial AMEA (Asia, Middle East & Africa) expressed, “At Signify, we believe in the power of light to positively impact lives and uplift local communities. To be able to provide energy efficient lighting to 770 households in Toa Payoh, in a neighborhood where our office has been located for more than 50 years, makes it even more meaningful”.

This initiative underscores Signify’s ‘Brighter Lives, Better World 2025’ commitment to driving positive change within the community, and also aligns with People’s Association vision of “A Nation that cares for our community”.

About Signify

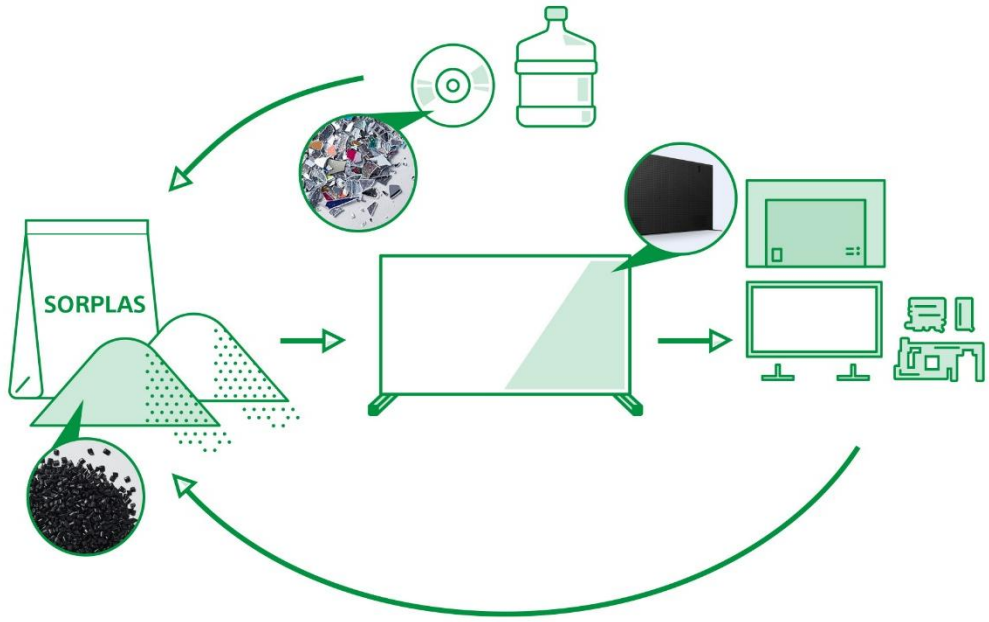
Signify (Euronext: LIGHT) is the world leader in lighting for professionals, consumers and the Internet of Things. Our Philips products, Interact systems and data-enabled services deliver business value and transform life in homes, buildings and public spaces. In 2024, we had sales of EUR 6.1 billion, approximately 29,000 employees and a presence in over 70 countries. We unlock the extraordinary potential of light for brighter lives and a better world. We have been in the Dow Jones Sustainability World Index since our IPO for eight consecutive years and have achieved the EcoVadis Platinum rating for five consecutive years, placing Signify in the top one percent of companies assessed.

Recycled TV Components Utilised in SORPLAS™ for BRAVIA™ TV Parts

Advancing Resource Efficiency Through "Material-to-Material Recycling"

Sony has developed practical "Material-to-Material recycling" that reuses plastic recovered from the rear covers of end-of-life televisions in new TV products. Material-to-Material recycling refers to recycling where materials recovered from used products are reused as raw materials in new products of the same category with equivalent quality.

This Material-to-Material recycling has been made possible by successfully incorporating plastic recovered from end-of-life TVs by the designated collection facility newly added as part of the raw material for SORPLAS, Sony's flame-retardant recycled plastic material. This innovative recycling method utilising SORPLAS will be implemented for the first time in the 65-inch model of the 4K OLED BRAVIA 8 (2024 models), with global shipments scheduled to begin within 2025.



Material-to-Material Recycling of TV Backs

Rear covers collected from end-of-life TVs contain various types of plastic, which previously made direct reuse in new products difficult due to differences in strength and texture. To overcome this challenge, the BRAVIA design team collaborated with Sony Semiconductor Solutions Corporation, the developer of SORPLAS, to create advanced sorting technology and optimal material blending methods suitable for television reuse. This technology enables the collection and sorting of specific plastics from used TV rear covers from any manufacturer for partial reuse as raw materials while maintaining the same high quality as conventional SORPLAS.

In the future, Sony aims to achieve complete "closed-loop recycling" (fully circular recycling that reuses end-of-life products as raw materials for new products) by recovering and reusing rear covers made with SORPLAS.

BRAVIA 8 (65-inch) and its rear cover made with SORPLAS

April 22nd each year marks "Earth Day", a day for individuals to consider and take action for the global environment. To coincide with this day, Sony published its environmental initiatives.

About Sony Electronics (Singapore)
Sony Electronics (Singapore) is responsible for the marketing and sales of Sony products in Singapore. It also handles export business for Sony products from Singapore to various parts of Asia. Since establishing our presence in Singapore in 1973, we have grown steadily over the years to become a leader in the electronics market. For more information on Sony's products and services in Singapore, please visit http://www.sony.com.sg/

About Sony Corporation
Sony Corporation is a wholly owned subsidiary of Sony Group Corporation and is responsible for the Entertainment, Technology & Services (ET&S) business. With the mission to "create the future of entertainment through the power of technology together with creators," we aim to continue to deliver Kando* to people around the world. For more information, visit: http://www.sony.net/

*Kando is a Japanese word that roughly translates to the sense of awe and emotion you feel when experiencing something beautiful and amazing for the first time.

Ice Cream Manufacturers can cut Start-Up Waste by 67% with New Tetra Pak® Ingredient Doser 4000 A3

- *3x faster to reach set point and more precise dosing cuts start-up waste by 67%*
- *Lower energy consumption than IE3 regulatory standard*
- *3-A certified, the gold standard of hygienic food equipment design*

Tetra Pak is helping manufacturers stay ahead of consumer appetite for new premium ice cream flavours with the Tetra Pak® Ingredient Doser 4000 A3. This next-generation solution offers more precise dosing of ice cream inclusions, reducing start-up waste by 67%, as well as optimising production efficiency.

The gourmet ice cream market is projected to grow by $13.96 billion at a 18.32% CAGR from 2023 to 2028, indicating that consumers are craving more than just classic flavours. With the rise of premiumisation and co-branded collaborations, ice cream manufacturers are developing innovative products using adventurous inclusions to stand out in this creative.

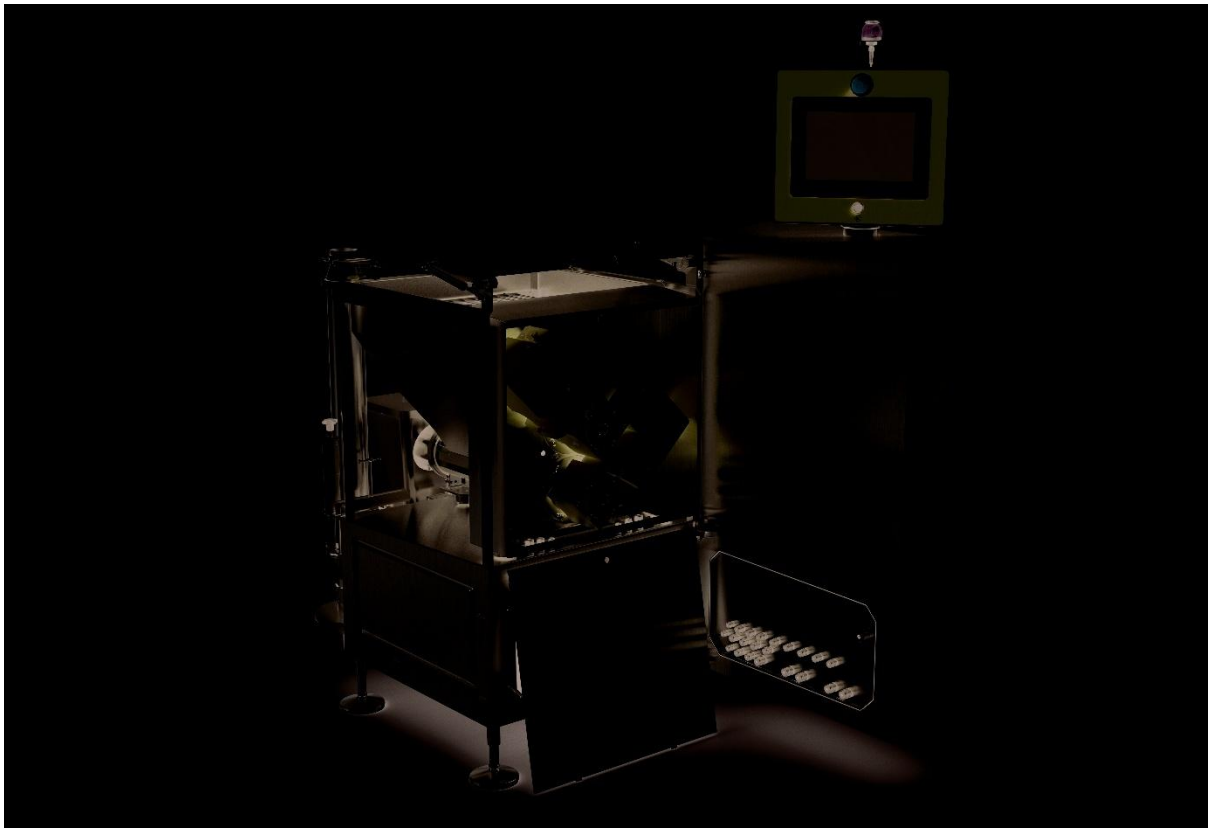
Whether it's oversized cookie pieces, sticky cherries or powdered spices, the Tetra Pak® Ingredient Doser 4000 A3 is designed to deliver even distribution, so that every scoop delivers the intended flavour experience. This precise ingredient control from hopper to product makes it easier to control costs, and can handle both small, dry ingredients and large, sticky inclusions, up to 32mm in diameter. It also reaches the dosing set point three times faster than previous models – down from 45 to just 15 seconds – eliminating 30 seconds of waste.

Ice cream with large sticky inclusions

The new doser is 3-A certified, meeting the gold standard of hygienic food equipment design. The motor offers 11% lower energy consumption than IE3 regulatory standard, and the direct drive of auger and agitator allows manufacturers to alter the capacity of the doser without changeovers, maximising uptime and cutting costs further. It is also versatile enough for other foods like peanut butter, cream cheese and mayonnaise, giving manufacturers the freedom to explore new possibilities beyond ice cream with this doser.

With the Tetra Pak® Ingredient Doser 4000 A3, indulgence has gone digital. A series of sensors and automated algorithmic responses keeps it running at peak performance, which reduces downtime, waste and wear while maintaining product quality and an even distribution of inclusions. This

digitalisation also provides manufacturers with real-time production insights from day one, enabling them to optimise production lines for a more efficient use of resources. These digital solutions are combined with new and improved operator interfaces and user-friendly design choices, aiming to provide an intuitive human-machine interface and an easy to clean and maintain doser for all operators.



Tetra Pak® Ingredient Doser 4000 A3

Hemang Dholakia, Processing Director for Malaysia, Singapore, Philippines and Indonesia, Tetra Pak added: “At Tetra Pak, we are committed to providing solutions that help our customers innovate, keeping efficiency and sustainability at the core. The Tetra Pak® Ingredient Doser 4000 A3 is one such new innovation. It facilitates our customers to ride on the wave for premium ice-cream in an efficient manner. It offers more precise dosing, which helps reduce start-up waste significantly, supporting manufacturers in improving production efficiency. This solution allows brands to experiment with bold ingredients while maintaining consistency, all while being energy-efficient and designed for easy integration into existing production lines.”

About Tetra Pak

Tetra Pak is a world leading food processing and packaging solutions company. Working with our customers and suppliers, we provide access to safe, nutritious food for hundreds of millions of people in more than 160 countries every day.

With over 24,000 employees worldwide, we commit to making food safe and available, everywhere, and we promise to protect what’s good: food, people and the planet.

More information about Tetra Pak is available at www.tetrapak.com.

SMART Researchers Pioneer First-of-its-Kind Nanosensor for Real-Time Iron Detection in Plants

- *This is the first nanosensor capable of simultaneously detecting and differentiating between two different forms of iron, Fe(II) and Fe(III), in living plants with high spatial and temporal resolution*
- *This innovation enables real-time, non-destructive iron tracking within plant tissues across different plant species, optimising plant nutrient management, reducing fertiliser waste, and improving crop health*
- *The new nanosensor also has potential applications beyond agriculture, in environmental monitoring, food safety, and health sciences, particularly in studying iron metabolism, iron deficiency, iron-related diseases in humans and animals*

Researchers from the Disruptive & Sustainable Technologies for Agricultural Precision (DiSTAP) interdisciplinary research group (IRG) of Singapore-MIT Alliance for Research and Technology (SMART), MIT's research enterprise in Singapore, in collaboration with Temasek Life Sciences Laboratory (TLL) and Massachusetts Institute of Technology (MIT), have developed a groundbreaking near-infrared (NIR) fluorescent nanosensor capable of simultaneously detecting and differentiating between iron forms – Fe(II) and Fe(III) – in living plants.

Iron is crucial for plant health, supporting photosynthesis, respiration, and enzyme function. It primarily exists in two forms: Fe(II), which is readily available for plants to absorb and use, and Fe(III), which must first be converted into Fe(II) before plants can utilise it effectively. Traditional methods only measure total iron, missing the distinction between these forms – a key factor in plant nutrition. Distinguishing between Fe(II) and Fe(III) provides insights into iron uptake efficiency, helps diagnose deficiencies or toxicities, and enables precise fertilisation strategies in agriculture, reducing waste and environmental impact while improving crop productivity.

This first-of-its-kind nanosensor by SMART researchers enables real-time, non-destructive monitoring of iron uptake, transport, and changes between its different forms, such as Fe(II) and Fe(III) – providing precise and detailed observations of iron dynamics. Its high spatial resolution allows precise localisation of iron in plant tissues or subcellular compartments, enabling the measuring of even minute changes in iron levels within plants - these minute changes can inform how a plant handles stress and uses nutrients.

Traditional detection methods are destructive or limited to a single form of iron. This new technology enables the diagnosis of deficiencies and optimisation of fertilisation strategies. By identifying insufficient or excessive iron intake, adjustments can be made to enhance plant health, reduce waste, and support more sustainable agriculture. While the nanosensor was tested on spinach and bok choy, it is species-agnostic, allowing it to be applied across a diverse range of plant species without genetic modification. This capability enhances our understanding of iron dynamics in various ecological settings, providing comprehensive insights into plant health and nutrient management. As a result, it serves as a valuable tool for both fundamental plant research and agricultural applications, supporting precision nutrient management, reducing fertiliser waste, and improving crop health.

"Iron is essential for plant growth and development, but monitoring its levels in plants has been a challenge. This breakthrough sensor is the first of its kind to detect both Fe(II) and Fe(III) in living plants with real-time, high-resolution imaging. With this technology, we can ensure plants receive the right amount of iron, improving crop health and agricultural sustainability," said Dr Duc Thinh Khong, DiSTAP research scientist and co-lead author of the paper.

"In enabling non-destructive real-time tracking of iron speciation in plants, this sensor opens new avenues for understanding plant iron metabolism and the implications of different iron variations for

plants. Such knowledge will help guide the development of tailored management approaches to improve crop yield and more cost-effective soil fertilisation strategies," said Dr Grace Tan, TLL Research Scientist and co-lead author of the paper.

DiSTAP researchers develop sensor for rapid iron nutrient detection and monitoring in plants, enabling precision agriculture and sustainable crop management

The research, recently published in *Nano Letters* and titled, "Nanosensor for Fe(II) and Fe(III) Allowing Spatiotemporal Sensing in Planta", builds upon SMART DiSTAP's established expertise in plant nanobionics, leveraging the Corona Phase Molecular Recognition (CoPhMoRe) platform pioneered by the Strano Lab at SMART DiSTAP and MIT. The new nanosensor features single-walled carbon nanotubes (SWNTs) wrapped in a negatively charged fluorescent polymer, forming a helical corona phase structure that interacts differently with Fe(II) and Fe(III). Upon introduction into plant tissues and interaction with iron, the sensor emits distinct NIR fluorescence signals based on the iron type, enabling real-time tracking of iron movement and chemical changes.

The CoPhMoRe technique was used to develop highly selective fluorescent responses, allowing precise detection of iron oxidation states. The NIR fluorescence of SWNTs offers superior sensitivity, selectivity, and tissue transparency while minimising interference, making it more effective than conventional fluorescent sensors. This capability allows researchers to track iron movement and chemical changes in real-time using NIR imaging.

"This sensor provides a powerful tool to study plant metabolism, nutrient transport, and stress responses. It supports optimised fertiliser use, reduces costs and environmental impact, and contributes to more nutritious crops, better food security, and sustainable farming practices," said Professor Daisuke Urano, TLL Senior Principal Investigator, DiSTAP Principal Investigator, NUS Adjunct Assistant Professor, and co-corresponding author of the paper.

"This set of sensors gives us access to an important type of signalling in plants, and a critical nutrient necessary for plants to make chlorophyll. This new tool will not just help farmers to detect nutrient deficiency but also give access to certain messages within the plant. It expands our ability to understand the plant response to its growth environment," said Professor Michael Strano, DiSTAP Co-Lead Principal Investigator, Carbon P. Dubbs Professor of Chemical Engineering at MIT, and co-corresponding author of the paper.

Beyond agriculture, this nanosensor holds promise for environmental monitoring, food safety, and health sciences, particularly in studying iron metabolism, iron deficiency, and iron-related diseases in humans and animals. Future research will focus on leveraging this nanosensor to advance fundamental plant studies on iron homeostasis, nutrient signaling, and redox dynamics. Efforts are also underway to integrate the nanosensor into automated nutrient management systems for hydroponic and soil-based farming and expand its functionality to detect other essential micronutrients. These advancements aim to enhance sustainability, precision, and efficiency in agriculture.

The research is carried out by SMART, and supported by the National Research Foundation under its Campus for Research Excellence And Technological Enterprise (CREATE) programme.

About Singapore-MIT Alliance for Research and Technology (SMART)

Singapore-MIT Alliance for Research and Technology (SMART) is MIT's Research Enterprise in Singapore, established by the Massachusetts Institute of Technology (MIT) in partnership with the National Research Foundation of Singapore (NRF) since 2007. SMART is the first entity in the Campus for Research Excellence and Technological Enterprise (CREATE) developed by NRF. SMART serves as an intellectual and innovation hub for research interactions between MIT and Singapore. Cutting-edge research projects in areas of interest to both Singapore and MIT are undertaken at SMART. SMART currently comprises an Innovation Centre and four Interdisciplinary Research Groups (IRGs): Antimicrobial Resistance (AMR), Critical Analytics for Manufacturing Personalized-Medicine (CAMP), Disruptive & Sustainable Technologies for Agricultural Precision (DiSTAP), and Mens, Manus and Machina (M3S).

SMART research is funded by the National Research Foundation Singapore under the CREATE programme.

For more information, please visit https://smart.mit.edu

About SMART Disruptive & Sustainable Technologies for Agricultural Precision (DiSTAP)

DiSTAP is one of the four Interdisciplinary Research Groups (IRGs) of the Singapore-MIT Alliance for Research and Technology (SMART). The DiSTAP programme addresses deep problems in food production in Singapore and the world by developing a suite of impactful and novel analytical, genetic and biomaterial technologies. The goal is to fundamentally change how plant biosynthetic pathways are discovered, monitored, engineered and ultimately translated to meet the global demand for food and nutrients. Scientists from Massachusetts Institute of Technology (MIT), Temasek Life Sciences Laboratory (TLL), Nanyang Technological University (NTU) and National University of Singapore (NUS) are collaboratively: developing new tools for the continuous measurement of important plant metabolites and hormones for novel discovery, deeper understanding and control of plant biosynthetic pathways in ways not yet possible, especially in the context of green leafy vegetables; leveraging these new techniques to engineer plants with highly desirable properties for global food security, including high yield density production, and drought and pathogen resistance, and applying these technologies to improve urban farming.

The DiSTAP IRG at SMART is led by MIT co-lead Principal Investigator Professor Michael Strano and Singapore co-lead Principal Investigator Professor Chua Nam Hai.

For more information, please log on to: http://distap.mit.edu/

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