



 **SINGAPORE GP**

ACCELERATING TOWARDS
A SUSTAINABLE FUTURE

2024 IMPACT REPORT

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On Track To Halving our Energy Emissions by 2028

2024 was a phenomenal year for the Formula 1 Singapore Grand Prix. In addition to a record high attendance since the update of the circuit in 2023, the event also clinched top ‘Fan Experience’ at the prestigious Formula 1 Promoter Awards for delivering the best overall fan experience, including entertainment stages, innovative wayfinding and branding.

The 2024’s night race achieved significant greenhouse gas (GHG) emissions¹ reduction of **40.6% in our Scope 1, 2 and 3** compared to 2022 during the 5-month construction and tear down of the event. The total emissions in the Circuit Park from patron experience zones amounted to **1407.71 tCO2e**.

In 2024, we reduced our **Scope 1 and 2 emissions by 40.1%** compared to 2022, **surpassing the 26% reduction target originally set for 2025** – this puts us on the fast track to halve our energy emissions from Scope 1 and 2 from the event by 2028. We remain committed to implementing sustainable measures across our organisation and the way we work so that we minimise the carbon footprint of our event. We’d like to say a huge thank you to all our staff, stakeholders, partners and patrons for their commitment and support in achieving the results and progress outlined in this report.



KEY ACHIEVEMENTS

of our sustainability initiatives under our three pillars in 2024 include:



Reducing Carbon Footprint

As a street circuit hosting a Formula 1 night race in the heart of the city, the logistical setup and infrastructure are a huge undertaking. With the Grand Prix being a live event that is time-critical, energy reliability is crucial to powering the Marina Bay Street Circuit.

As a temporary circuit, we depend significantly on power generators for our energy needs. Diesel fuel represents our largest source of GHG emissions and to address this challenge, we increased the use of fuel from sustainable sources by 40% compared to 2023 - following the successful trial of different types of sustainable fuel² in 2023 to power our generators across the Circuit Park.



A Holistic Approach to Sustainability

The Marina Bay Street Circuit attracts more than 260,000 fans over the race weekend and this contributes to a significant increase in waste streams. To ensure that we reduce waste, we have implemented various initiatives which include ceasing the sale of still water in single-use plastic bottles saving 160,000 bottles, converting 100% of our tableware at the staff cafeterias, Media Centre, Paddock Club, Hospitality Suites and office at the Pit Building to being reusable or biodegradable and encouraging patrons to segregate their waste and to dispose of it in the correct bins.



Social and Community Impact

We believe in the unifying of sport to grow education, employment and volunteering opportunities. We support local businesses with more than 700 local companies being sub-contracted to work for the Singapore race. Our annual social and community outreach program gives the local community a slice of the racing action beyond the track. Through Singapore GP’s #RevUpSGP campaign, the local community experienced F1-themed engagements which include training and work experience for students from Institutes of Higher Learning, school talks, F1-themed exhibits, Behind-the-Scenes tours and the Thursday Pit Lane Experience.

In addition to our current sustainability initiatives, we continue to take great strides to drive change by embedding environmental responsibilities into our procurement policies and partnership agreements. We want to establish accountability for everyone involved in the Formula 1 Singapore Grand Prix.



ADAM FIRTH

Executive Director



SASHA RAFI

Director of Sustainability

Footnote:
¹ Singapore GP’s Greenhouse Gas (GHG) emissions are calculated from Scope 1, 2 and 3 emissions arising from event operations within the Circuit Park’s patron experience zones. Patron experience zones refer to Zone 1 through to Zone 4 in the Circuit Park and areas that are directly under Singapore GP’s purview and control. This excludes all freight, logistics and travel by Formula 1 and teams. The emissions are calculated across 5 months in 2022 which includes set up and tear down of the event.
² Sustainable fuel included the trial of HVO R20, R100, B100 and B7 to power our generators across the Circuit Park. Hydrotreated Vegetable Oil (HVO) made from 100% sustainably sourced renewable raw materials such as used cooking oil and animal fat from food industry waste and results in 75% to 95% less greenhouse gas (GHG) emissions over the fuel’s life cycle when compared with fossil diesel. Biodiesel is a biofuel blend consisting of petroleum diesel and bio-based diesel, with the number representing the percentage of renewable diesel present in the fuel.

OUR GREENHOUSE GAS EMISSIONS IN 2024

Our Progress Towards Decarbonisation

In 2024, our Scope 1, 2, and 3 emissions totalled **1407.71 tCO₂e**, representing a **40.6% reduction** compared to 2022 and a 25.2% reduction compared to 2023.

This is attributed mainly through the increased use of sustainable fuel across select generators in the Circuit Park, which accounted for a **60.5%** reduction in Scope 1 emissions compared to 2022.

Our Progress Towards Targets

In 2024, we reduced our Scope 1 and 2 emissions by **40.1%** compared to 2022, which surpasses the 26% reduction target originally set for 2025.

Reductions in GHG emissions will not always be linear as we journey toward our goal of halving our energy emissions by 2028.

GHG emissions based on a 5-month period during the build and tear down of the race

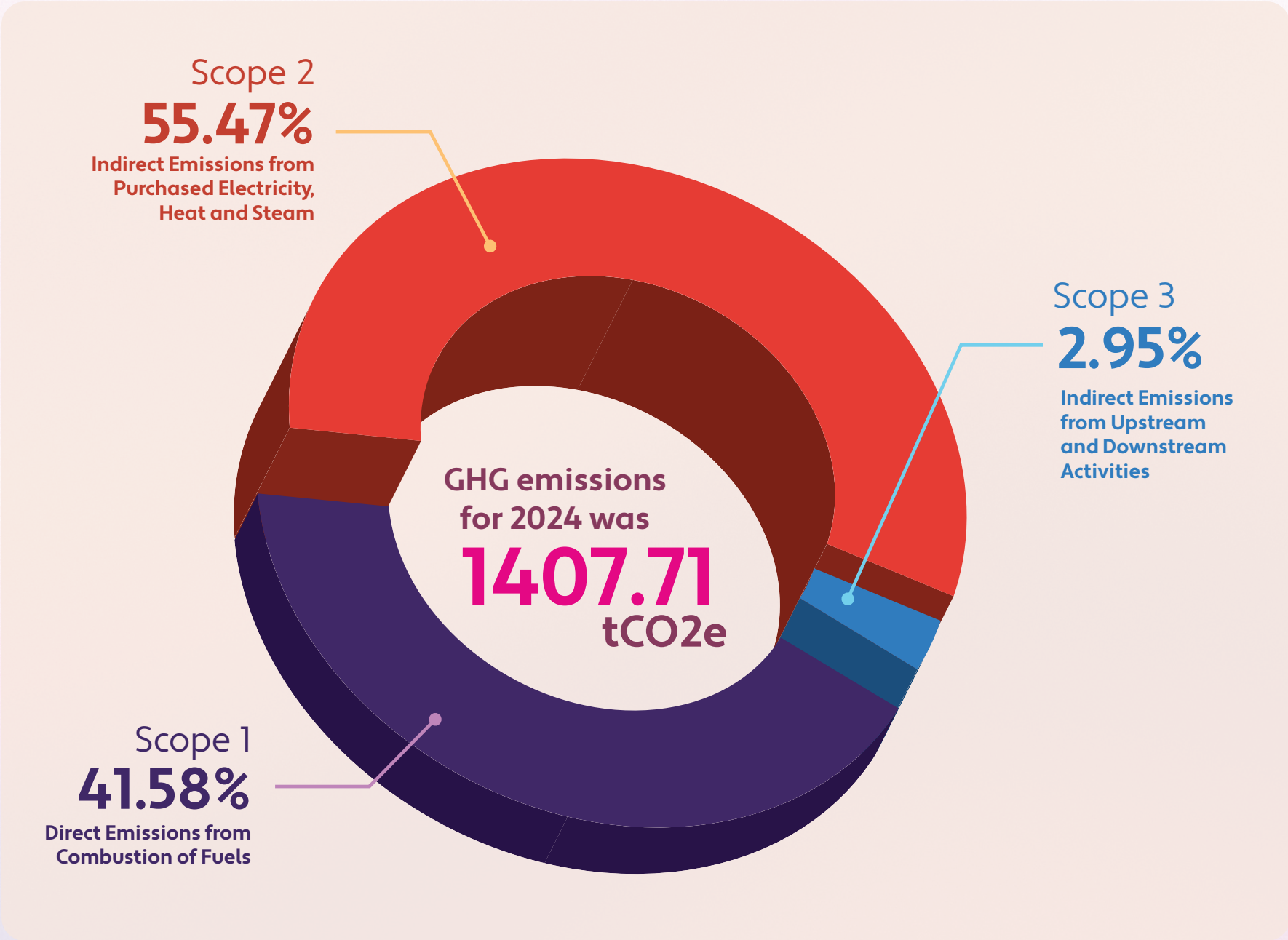
Inventory		GHG emissions (in tonnes CO ₂ e)		
		2022	2023	2024
Scope 1	Diesel	1084.25	663.25	496.61
	B7 Biodiesel	365.14	-	-
	B100 Biodiesel	7.50	47.79	-
	R20 Biodiesel	-	41.08	-
	R100 HVO		98.72	57.91
	Liquefied Petroleum Gas (LPG)	26.68	24.90	30.81
Scope 2	Electricity	795.35	859.00	780.80
	Market-based: REC	-	747.51	710.90
	Market-based: Non-REC	-	111.49	69.89
	Location-based: Singapore	-	859.00	780.80
Scope 3	Water	3.65	6.28	5.92
	Solid Waste	75.52	128.70	11.77
	Shuttle Vehicles	3.92	3.22	3.73
	Ferry	1.64	1.55	0.28
	Helicopter	7.95	6.30	19.88
Total GHG Emissions		2,371.62	1,880.80	1,407.71

OUR GREENHOUSE GAS EMISSIONS IN 2024

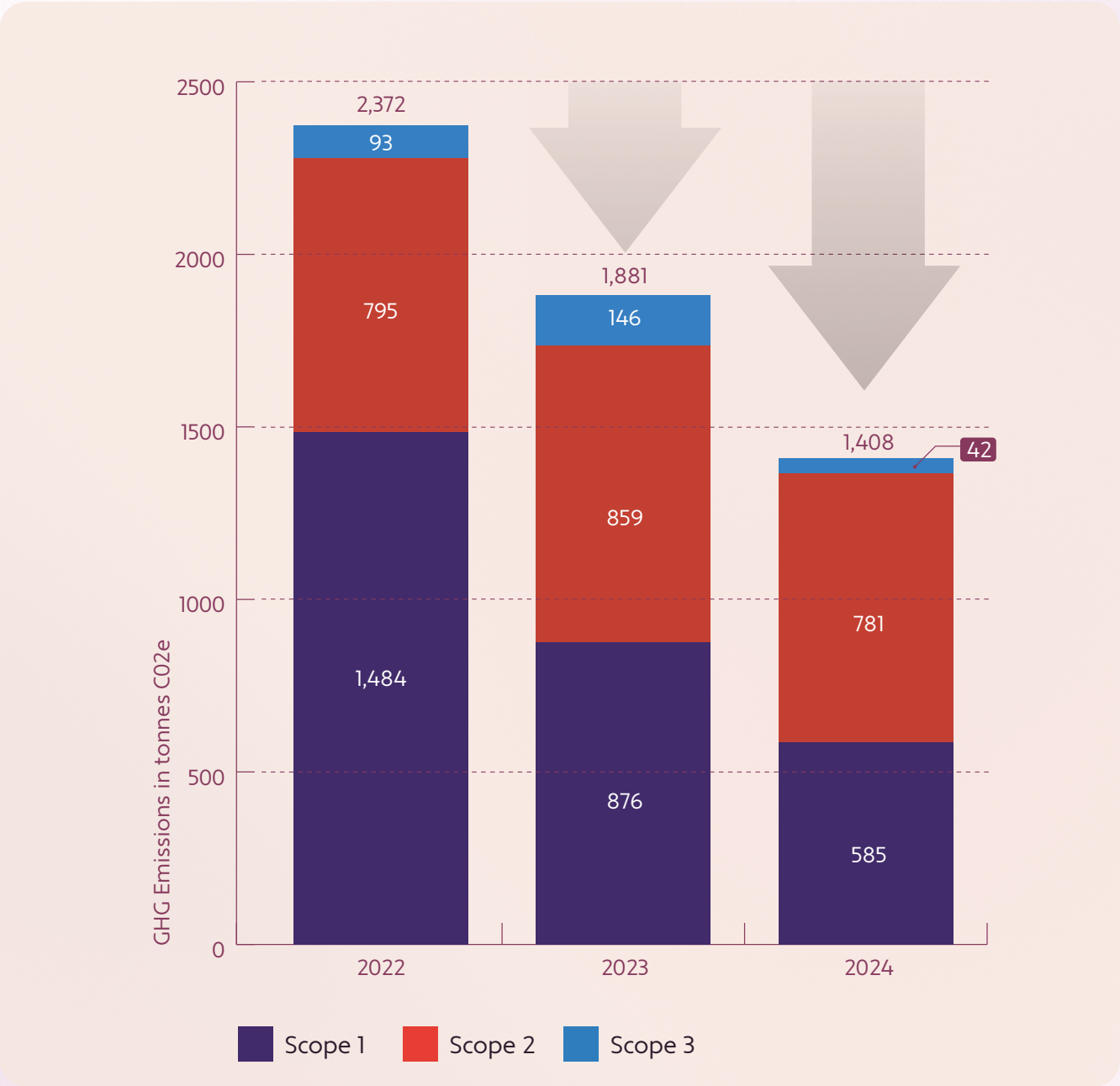
Our Greenhouse Gas Emissions In 2024



The Event’s Greenhouse Gas Emissions* for 2024



GHG Emissions* since 2022



* Across 5 months, June to November, including the set-up and tear down of the event

Our 2024 GHG emissions have been verified by BSI, in accordance with the requirements of ISO 14064-1:2018 Specification with guidance at the organisation level for quantification and reporting of greenhouse gas emissions and removals.

An aerial night view of the Singapore skyline, featuring the Marina Bay Sands and other illuminated skyscrapers. A vibrant rainbow light trail streaks across the water and cityscape, adding a dynamic and colorful element to the scene.

KEY SUSTAINABILITY PILLARS

In 2022, Singapore
GP embarked on a
sustainability journey
centered on three
fundamental
principles:

Reducing our carbon footprint

Taking a holistic approach to sustainability

**Creating a positive impact
in the community**

REDUCING CARBON FOOTPRINT

Tackling climate change by **reducing** carbon footprint

In 2023, we made a commitment to reduce our energy emissions from Scope 1 and 2 by 26% by 2025. Additionally, we set a target to halve these energy emissions by 2028. We focussed on reducing energy consumption, increasing the use of renewable energy sources and utilising Renewable Energy Certificates for unavoidable emissions.

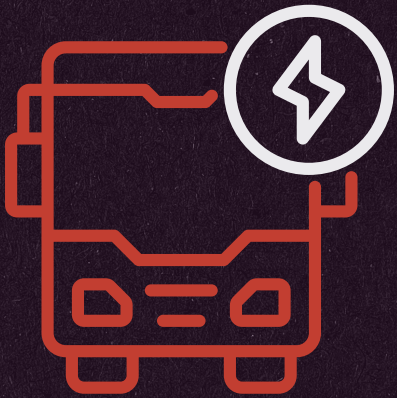
In 2024, we delivered on our promise and reduced our **Scope 1 and 2 emissions by 40.1%** compared to 2022. The successful implementation of HVO R100 as a replacement for diesel in select generators throughout the Circuit Park has been a driving factor in this substantial reduction.

Encouraged by the promising results, we will continue to increase the use of HVO across all our power generators in the coming years.

OUR IMPACT IN NUMBERS

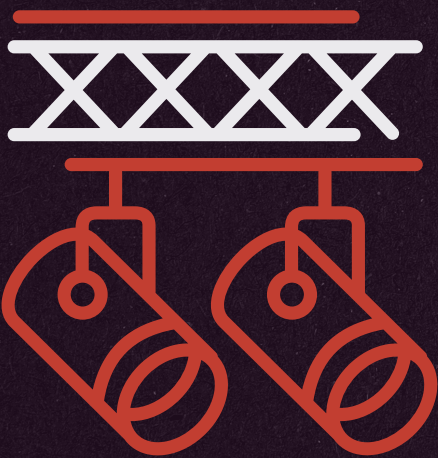


compared to the 2022 Scope 1 emissions when we increased R100 HVO to power generators in Zone 1



ELECTRIC BUSES

For the first time, we trialled the use of **electric buses** to transport crew to and from designated locations around the Circuit Park.



Reduced energy use by at least

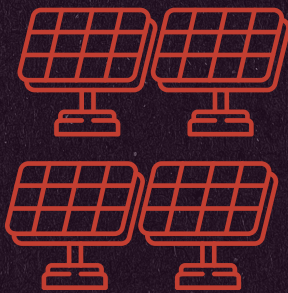
30%

The track continues to be illuminated by energy-efficient LED lights, **reducing energy use by at least 30%** compared to the previous metal-halide bulbs



More than **1,300**

solar panels installed at the F1 Pit Building since 2023.

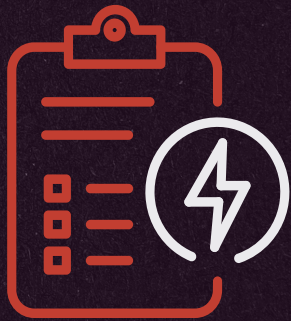


This generated more than **830,585kwh** in 2024.

*Fully installed by the Singapore Tourism Board

91%

of electricity consumption backed by RECs



We offset GHG emissions associated with a considerable proportion of electricity consumption through the purchase of **Renewable Energy Certificates (RECs)**. In 2024, **91%** of our electricity consumption was backed by RECs, an improvement from **87%** in 2023.

SPOTLIGHT | HYDROTREATED VEGETABLE OIL (HVO) R100

Fuelling a Sustainable Future

We reported in our 2022 Environmental, Social and Governance (ESG) Report that diesel consumption represented a significant portion of our overall carbon emissions. This was identified as a critical opportunity to reduce GHG emissions associated with our event operations.

To address carbon emissions during the race weekend, we progressively switched to greener fuels to power our generators, reducing the reliance on diesel. Sustainable fuels represent a critical pathway towards reducing carbon emissions and environmental impact.

Our goal is to covert all of our generators to run on sustainable fuel by 2028. Done in phases, this will constitute a major milestone in our sustainability journey and contribute to our overarching GHG emission reduction targets.

2028 Target

HVO R100 in 100% of generators to deliver up to 52% CO₂e emissions savings for Scope 1 and 2

Progress

- 2022 • We tested a variety of sustainable fuels in 2022 and 2023, including HVO, R100, R20, B7, and B100 biodiesel, to power select generators.
- 2023 •
- 2024 • We expanded our sustainable fuel usage by 40% compared to 2023 resulting in a reduction of our Scope 1 GHG emissions by 33.2% from the previous year.



HVO R100 powered generators in Zone 1



The Wharf Stage in Zone 1 powered by HVO R100

ADVOCATING CHANGE THROUGH A HOLISTIC APPROACH TO SUSTAINABILITY

We remain committed to implementing a comprehensive sustainability framework across all aspects of our organisation. We continue to collaborate with our key partners and vendors to work around the constraints and challenges associated with the organising and delivery of our event.

Our sustainability framework is built on the **3Rs principle – Reduce, Reuse and Recycle.** We will maximise material longevity by reusing equipment or items where possible and prioritise sustainable procurement to minimise waste.







TAKING A HOLISTIC APPROACH TO SUSTAINABILITY



OUR IMPACT IN NUMBERS

What We Use





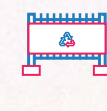
Waste

-  **E-ticket implementation** since 2022 saved approximately **250,000 plastic cards and lanyards**, **135,000 PET packaging units** and **31,000 bubble mailers** annually
-  Improved **food waste collection for bio-digestion and trialled glass recycling collection**. More than **5,000 bottles** were collected to produce approximately **2,700 kg of crushed glass for recycling** in 2024
-  Filtered water dispensers installed in the Paddock Club **saved 4,248 glass bottles** in 2024
-  Approximately **2,320kg of used cooking oil** was collected from in-circuit F&B operators in 2024 for recycling to biofuel

Infrastructure

-  **Maximising usage of facilities over two events**. Select **SGP's infrastructure** such as concrete barriers and fencing were **deployed earlier** for the Republic's National Day celebrations - these are then maintained for the race
-  **Reusing infrastructure and materials** for as long as possible to significantly reduce GHG emission

Materials

-  **100% of placemats** made from sustainably sourced material used in the Paddock Club and Hospitality suites
-  **90% of the menu cards made from sustainably sourced material** used in the Paddock Club and Hospitality suites
-  **100% of biodegradable disposable cups and cutlery were** used at staff cafeterias, Media Centre, Paddock Club and Hospitality suites, as well as offices at the Pit Building
-  **100% of tableware** in the Paddock Club and Hospitality suites are reusable
-  **36% of our fence wraps** are printed on PVC made from sustainably sourced material, an improvement from **24%** in 2022







Reusing infrastructure and materials

Where We Work

-  **56% of our staff uniforms** are made using recycled polyester



Staff uniforms made using recycled polyester

-  **72% of staff meals** are packed in 100% biodegradable food packaging, an increase of 6% compared 2023
-  **Eliminated more than 35,000 printed vouchers** annually when we switched to a digital staff meal redemption system
-  **Reduction of printed plastic passes by 93%** when we digitised our accreditation passes in 2022
-  Saved **5,000 plastic vinyl decals** by switching to FSC-certified paper vehicle decals in 2024

TAKING A HOLISTIC APPROACH TO SUSTAINABILITY

OUR IMPACT IN NUMBERS

A Holistic Approach To Sustainability



Where You Watch



129,600 litres of water saved over each race weekend through implementation of **water-efficient solar powered-container toilets** in the Circuit Park



160,000 single-use plastic bottles eliminated annually since 2022. Fans are encouraged to bring reusable bottles and fill these up at various complimentary water points throughout the Circuit Park

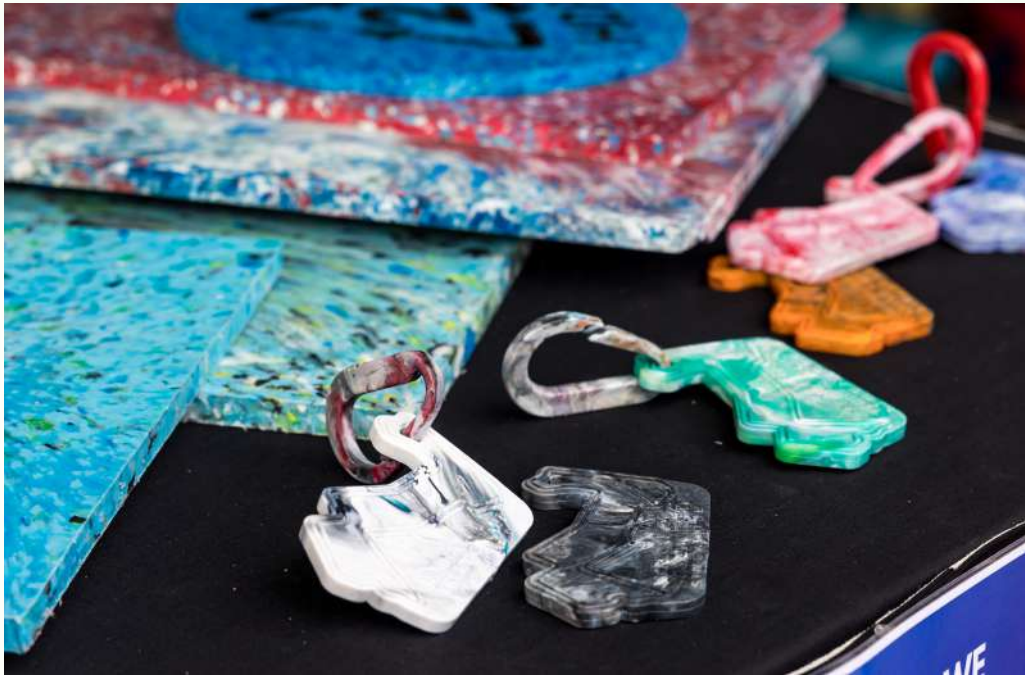


Water points around the Circuit Park



Collaboration with **Plastify**, a local startup that converts plastic waste into functional products

- **Plastic waste collection drive at community engagement events** held in the lead-up to the race
- In-circuit activity booth where patrons **made their own keychains as memorabilia using recycled plastic**. A total of 144kg of HDPE plastic was recycled with this initiative
- **Coasters** made out of recycled plastic were also produced as part of the 2024 Singapore GP merchandise collection, recycling a total of **48kg of HDPE plastic**



Keychain mementoes made from recycled plastic



Old **SGP fence wraps** were **upcycled** into cushion covers that were paired with recycled wooden pallets to create lounge chairs for patrons in Zone 4



100% of parasols made from Rpet (Recycled PET) materials used in the Circuit Park



7,500 pieces of single-used plastic packaging saved by using reusable bags made from sustainable materials for official Singapore GP apparel



Upcycled SGP fence wraps on recycled pallets

SPOTLIGHT | PLASTIFY

Repurposing with purpose

At Singapore GP, we are constantly exploring ways to engage and collaborate with industry partners to implement innovative solutions that advance our sustainability objectives.

In 2024, we worked with Plastify, a local start-up specialising in recycling plastic waste into functional, reusable goods. This strategic partnership exemplifies our dedication to supporting environmental technologies and fostering the development of circular economy principles within our operational framework.

As part of this collaboration, we invited local residents to drop off used Type 2 High-Density Polyethylene (HDPE2)¹ and Type 5 Polypropylene (PP5)² items such as body wash, detergent, and shampoo bottles that are clean and have had their labels removed at SGP’s #RevUpSg Festivals at Suntec City, HDB Hub, and One Punggol.

Over the race weekend, patrons in Zone 1 of the Circuit Park also had a go at crafting mementoes using recycled plastic that were collected previously. We also produced coasters out of the recycled plastic as part of our official merchandise collection.

¹ HDPE2 based items include shampoo, soap, and detergent bottles, flower pots, as well as grocery bags.
² PP5 based items include disposable cups, plates, bottles, cutlery, and lids on shampoo/soap bottles.

The partnership with Plastify represents just one component of our comprehensive approach to sustainable event management. By actively seeking and nurturing relationships with forward-thinking organisations, we aim to continually enhance our sustainability practices and contribute to the advancement of environmental solutions.

As we move forward, we intend to expand upon this successful collaboration and explore additional partnership opportunities that are able to complement our sustainability goals.

2028 Target

Commitment to a reduction in overall waste and working with industry partners for innovative solutions



Coasters made of recycled plastics



Patrons trying their hands at making their own keychain

REVVING UP OUR SOCIAL AND COMMUNITY IMPACT

We remain committed to ensuring an **inclusive and robust community outreach program** that creates meaningful connections through multiple touchpoints. This includes **education, employment and volunteering opportunities**. We firmly believe in the unifying power of sport as a catalyst for positive social impact within the local community.

Through **strategic partnerships and targeted initiatives**, we generate educational advancement, employment pathways, and volunteer experiences that benefit both participants and the broader community. We understand our position as not just event organisers, but as community stakeholders with a responsibility to create lasting social impact.



ITE students in action

OUR IMPACT IN NUMBERS



More than **700 Singapore-based companies** sub-contracted to work for the race annually



Over 18,000 people visited our race-themed festivals and live Formula 1 race screenings in the lead up to the event



Approximately **15,000 students** across **23 schools** learnt about the Grand Prix and its impact.



Over **45,000 local residents** experienced FI-related activities through SGP's #RevUpSG campaign in 2024 which included a new karting challenge, Behind-the-Scenes tours and a Pit Lane Walk experience.



Over 12,000 students from Institutes of Higher Learning (IHL) have trained and worked for the race to-date. Our partnership **with IHLs** to provide training and real work experience for students. Since 2009, SGP has engaged with approximately 900 students for this programme annually.



At Singapore GP, we fully embrace having a diverse workforce, ensuring there is a fair representation across all demographics with females making up **54%** of our core team.



In 2024, **26.95% of the race officials were women**, up from 26.1% in 2023 – one of the highest number of female race officials on the F1 calendar



Singapore GP female race officials

#RevUpSG is our outreach initiative designed to engage the local community and create buzz around the Formula 1 Singapore Grand Prix.

The programme encompasses an array of complimentary F1-themed activities and events held at various heartland locations and schools. This has included free live screenings of selected F1 races, a roving exhibition of specially curated Formula 1-themed showcase, educational talks in schools, Behind-the-Scenes tours and the much coveted Pit Lane Experience held a day before the Circuit Park opens.

Annually, Singapore GP collaborates with a chosen charity organisation. In 2024, we partnered with the **Children's Wishing Well** where selected youth had the opportunity to meet key F1 personnel to gain insights into Formula 1 and go behind the scenes at the Marina Bay Street Circuit.



Live screening at one of our activations as part of the CET program



Participants partaking in activities at a local activation

OVER
700K
LOCAL RESIDENTS
via a variety of **community
activations**

MORE THAN
34K
LOCAL RESIDENTS
have participated in the
Thursday Pit Lane
Experience

AND OVER
104K
STUDENTS

have **gained insight** into the world of Formula 1 through educational talks held at schools since 2012

LOOKING AHEAD

Our Commitment to a Sustainable Future and Driving Change

Singapore GP is committed to being a more sustainable organisation. We will drive environmental change in our operations and continue to engage with our staff, partners and key stakeholders to further mitigate our environmental impact.

Aligned with the United Nations' Sustainable Development Goals and Formula 1's 2030 Net Zero target, we are committed in ensuring that our initiatives are centered on our goal of halving energy emissions from our race by 2028.

We will continue to measure, report, and share our progress, ensuring we are compliant with local environmental guidelines and regulations. Our key pillars remain the guiding principles through which we will build on initiatives to leave a positive track print where we race.

Through collaborative innovation with industry leaders and sustainability experts, we continue to work towards being one of the most sustainable street circuits on the F1 race calendar.

Our Milestone Trackers

Trackers	2025	2028
Reducing Carbon Footprint	<ul style="list-style-type: none">• 50% of generators to be powered by HVO• 26% reduction in Scope 1 and 2 emissions compared to 2022• Heading towards carbon neutrality through RECs for electricity consumption within SGP's control	<ul style="list-style-type: none">• 100% of generators to be powered by HVO• 52% reduction in Scope 1 and 2 emissions compared to 2022• 100% of electricity used to be carbon neutral through solar power and RECs
A Holistic Approach to Sustainability	<ul style="list-style-type: none">• Baseline measure of waste sources to identify improvement actions• Increase proportion of tableware in the Circuit Park to be either reusable, recyclable or fully biodegradable• Implementation of a sustainable procurement policy for procurement of new items	<ul style="list-style-type: none">• Commitment to reduction in overall waste and work with partners for innovative solutions• 100% of tableware in the Circuit Park to be either reusable, recyclable or fully biodegradable
Social and Community Impact	<ul style="list-style-type: none">• Continue to engage with local expertise, organisations and tertiary institutions to offer real work experience for students• Commitment to ensuring an equal, diverse and inclusive workforce through HR policies and delivering an event that is accessible and inclusive• Continue to engage the community with a robust local outreach campaign	

THANK YOU
 SINGAPORE GP