

A green electric bus is shown at a charging station. The bus is connected to a charging cable. The bus has "SGMBUS" and "SBS Transit" logos on its side. A sign on the window says "THANK YOU FOR YOUR WAY". The license plate is "SG3059A". The background is a clear blue sky.

DRIVING ENVIRONMENTAL STEWARDSHIP

TO ENHANCE SUSTAINABILITY IN SINGAPORE

AS ESG REMAINS AN AREA OF INCREASED FOCUS FOR BUSINESSES AND REGULATORS, WE CONTINUE TO STEP UP OUR ACTIONS TO FURTHER ADVANCE OUR TRANSITION TO BE A LOW-CARBON BUSINESS AND PUBLIC TRANSPORT PROVIDER.

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

EMISSIONS & ENERGY	RESOURCE EFFICIENCY	SUSTAINABILITY TRANSITION
<p>Accelerating efforts to integrate solutions to enhance fuel and energy efficiency in business operations and activities. This will also include the commencement of our alignment to the TCFD.</p>	<p>Minimising our environmental footprint and affiliated impacts through water and waste management.</p>	<p>Driving sustainable development through collective engagement of our stakeholders and community.</p>



The Government’s Singapore Green Plan 2030 and the LTA’s 2040 Master Plan are aimed at lowering Singapore’s environmental footprint. Simultaneously, the plans are also aimed at enhancing our country’s sustainable development as we transition towards a clean and more sustainable transport network. In resonance with The Singapore Green Plan and with LTA’s commitment to a 100% cleaner energy public bus fleet by 2040, we are whole-heartedly gearing our efforts and initiatives in support of this change and transition.



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

EMISSIONS & ENERGY

WHY THIS ISSUE IS MATERIAL

As a public transport service provider, we are cognisant of the environmental impact and emissions associated with our operations and have intensified our efforts to mitigate our environmental footprint. Our goal is to offer sustainable and eco-friendly transportation options to the commuting public, while simultaneously delivering reliable, efficient, safe and secure public transportation services. To achieve this, we remain committed to identifying and pursuing opportunities to reduce our carbon emissions.

HOW WE MANAGE THIS

As a subsidiary of the ComfortDelGro Group, we are aligned with its energy policy and management plan which were inceptioned in 2021. More specifically, we stand firmly with ComfortDelGro in its commitment to the Science Based Targets Initiative (SBTi) of 1.5°C trajectory. Accordingly, our Bus and Rail Energy Workgroups have taken oversight of our energy consumption and emissions generated. The Workgroups meet monthly where stakeholders review and monitor the Company's energy performance and progress as well as its energy saving initiatives. They strive to improve energy efficiency and reduce affiliated wastage with key focus on the temperatures of the air-conditioning systems and the

traction required to power the trains as they constitute more than half of our energy consumption.

Our energy usage and the effectiveness of energy saving initiatives are monitored through a monthly energy consumption and energy efficiency trending report. Through these progress reports, the Bus and Rail Energy Workgroups convene quarterly to analyse the efficacy of our energy saving initiatives by comparing its performance against the targets and the report is shared with all stakeholders. In doing so, we are able to effectively identify and deploy new energy curbing initiatives which ultimately seek to limit our environmental footprint. Additionally, our stakeholders are engaged and informed about our initiatives and actions through quarterly briefings, email messaging, and monthly energy performance trending materials.

As a means to further mitigating our impact on the environment through energy consumption, we embarked on a journey to increase our reliance on solar energy. As it is an abundant source of renewable energy, we expect to progressively implement the use of solar energy across all our operations.

Additionally, SBS Transit implemented the following initiatives to minimise our environmental impacts stemming from our energy consumption and emissions.



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

OUR GREEN INITIATIVES

HARNESSING SOLAR ENERGY AT OUR BUS AND TRAIN PREMISES

Since 2018, we have been utilising solar energy as a means to power up some of our depots. We continued to expand our solar panel deployment, which resulted in an increase in the production of solar power. Our generation of solar energy increased by 80% to 4,319,802 kWh in 2022 from the previous year with the addition of 5,796 solar panels installed at the Gali Batu Train Depot in November 2021. These solar panels have the capacity to generate approximately 2.3MWp energy annually.



SOLAR ENERGY GENERATION AT DEPOTS

	2019 (kWh)	2020 (kWh)	2021 (kWh)	2022 (kWh)
Ulu Pandan Bus Depot	860,690	863,216	860,036	810,664
Yio Chu Kang Bus Interchange	-	10,809	199,322	185,879
Gali Batu Train Depot	1,203,000	869,000	1,334,000	3,323,259
Total	2,063,690	1,743,025	2,393,358	4,319,802

AIR-CONDITIONING AND LIGHTING OPTIMISATION

Our MRT stations continued to meet the Singapore Standard SS530 for “Energy Efficiency for Building Services”. Multiple energy-saving initiatives have been implemented at our premises to reduce our carbon footprint.

At our train stations, chillers are optimised based on recommendations from a detailed energy audit that was conducted at the DTL stations. First implemented at the Rochor Station, it has since been extended to all the 34 stations on the line and nine stations on the NEL. At the Bedok and Joo Koon bus interchanges, the chiller supply temperature has also been optimised to improve energy savings. We also replaced the air conditioning system with a higher efficiency one that used less energy at the Soon Lee bus depot. This consequently resulted in over 50,000 kWh energy saved.

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

Progressively, fluorescent lightings are being replaced with LED lightings in all our work areas including the workshops, MRT stations, bus terminals and bus parks. Efficient-energy LED lightings could potentially reduce energy consumption by 30%. An ongoing trial is also being conducted to reduce excessive lightings at non-public areas. Using motion sensors, the lights automatically switch on when activated by movements. Besides this, we also worked on reducing the intensity of the lightings in other areas.

Collectively, these initiatives reduced electricity consumption at our MRT stations and paved the way towards achieving an overall 3% reduction. Improving the performance of our lighting and air-conditioning systems helps in the achievement of our energy and emissions goals.

OUR TRANSITION TO A CLEAN BUS FLEET

A cornerstone of our emissions reduction efforts is adopting a clean bus fleet as we gradually phase out buses with combustion engines. To do this, we will continue to work closely with the LTA to support its clean bus fleet replacement plan. Since 2018, the

LTA has handed over some green buses for trials and implementation in our operations. In 2022, we had 56 of these vehicles comprising 31 fully electric and 25 hybrid ones. In our existing fleet of buses, we target to scrap about 400 of our diesel-powered buses by 2025 and another 1,600 by 2030.

Meanwhile, our existing diesel-powered buses comply fully with both the NEA and the European Union EU emission standards (up to Euro 6), which aim to reduce the generation of harmful exhaust emissions. Care has also been taken in the quality of diesel that we utilise to ensure it possesses high-performance combustion characteristics and with additives that help improve engine performance while minimising exhaust emissions. This generates less than 10ppm sulphur content.

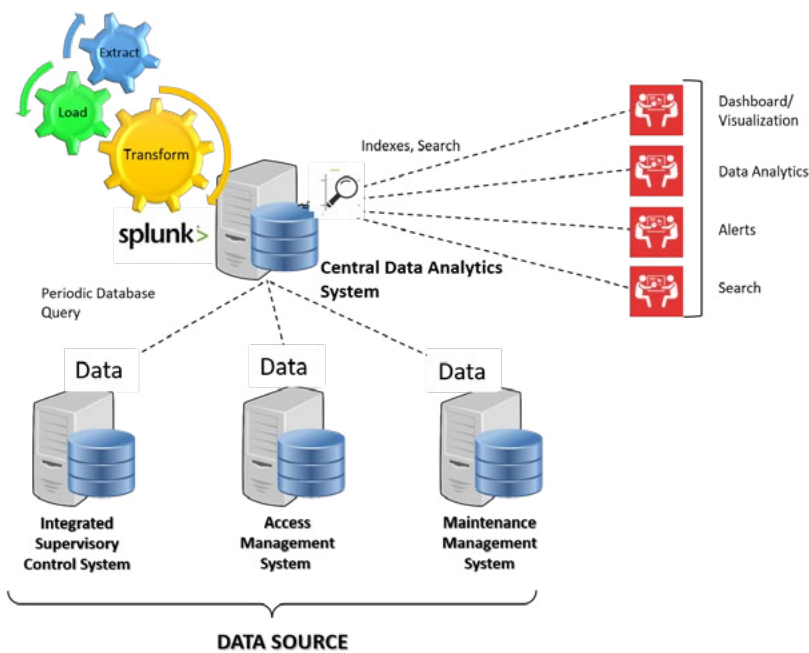
To derive fuel efficiency and ensure optimum performance, we strictly comply with our established preventive maintenance regime which includes exhaust smoke tests. Our buses are also subject to stringent inspections bi-annually as mandated by the LTA at authorised vehicle inspection centres.

Model	BYD K9RA Electric Bus	Linkker LM312 Electric Bus	MAN A22 Euro 6 Diesel Bus
			
CO² Emissions (kg/km)	0.48	0.53	1.27
 Technology	Battery Capacity: 348kWh Charge Rate: 150kW DC	Battery Capacity: 177kWh Charge Rate: 450kW DC	Exhaust Gas Recirculation Diesel Particulate Filter
 Charge time	2.5hrs	20mins	Selective Catalytic Reduction
 Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate	N.A
 Passenger Capacity	80	83	88

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

TRIAL OF TWO DIESEL HYBRID BUSES ON SERVICE 123 IN SENTOSA

We are trialling two diesel hybrid buses on Service 123 that serves Singapore's Sentosa Island. They operate in electric mode, which is emission-free, at pre-defined zones such as bus stops and around the vicinity of hotels. Being quieter, they blend in with the resort's ambience. The bus' batteries are automatically charged during cruising and engine braking which means that they do not require any external charging infrastructure. We expect to achieve a reduction in fuel consumption and about 37% in carbon saving (or about 5,000kg) over the six-month trial that commenced on 28 Nov 2022.



SMART ENERGY MANAGEMENT AT TRAIN STATIONS

SBS Transit has implemented a data analytics platform to monitor the energy usage of escalators, lifts, lightings, and sump pumps in the DTL stations. Data is available in near real-time to detect anomalous operations, and subsequently prompts timely actions for quick, informed, and effective decision making.

As we monitor and manage energy usage, the project has been effective in reducing energy waste, lower affiliated costs and optimise resource consumption. Since implementation, we have witnessed a reduction in idling operational use of the escalators, lifts, lightings, and sump pumps in the stations, which translates directly to energy savings. The optimised operations also improved the lifespan and reliability of the respective systems as the effects of wear and tear, especially for mechanical moving parts, were flagged and mitigated.

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

OUR PERFORMANCE AND LOOKING FORWARD

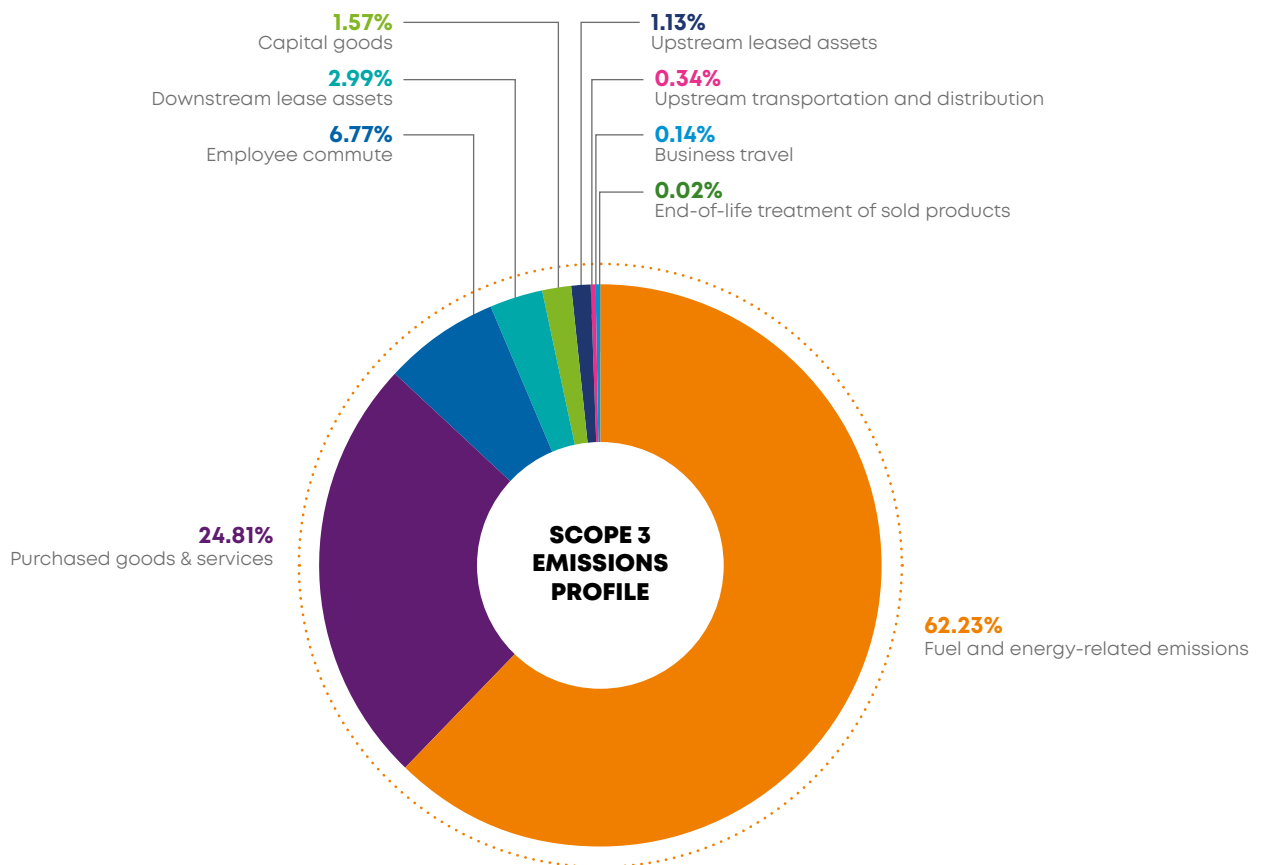
In 2022, we undertook a detailed assessment of our GHG inventory to include all our operations under the operational control approach, in alignment with the GHG Protocol. Our scope encompasses all our operations in Singapore.

We have established 2022 as our baseline year for GHG calculations in order to capture a closer representation of the global economy after the COVID-19 pandemic recovery. All GHG emissions are calculated in carbon equivalent (CO₂e), and this also includes all appropriate GHG such as methane (CH₄) and nitrous oxide (N₂O).

Through our energy saving and emissions reduction initiatives, investments and adoption of green technology, we have seen improvements in our energy and emissions performance. Despite the resumption of operations and growing demand for public transportation from post-pandemic economic recovery, our Scope 1 CO₂ emissions in 2022 totalled 381,690 tCO₂e, an increase

of a mere 1,496 tCO₂e (0.39%) as compared to 2021. The majority of our Scope 1 emissions are attributed to fuel use. Our Scope 2 emissions primarily comprised our electricity consumption across our operations. Our Scope 2 emissions in 2022 totalled 167,439 tCO₂e, which was a decrease of 5,895 tCO₂e (3.40%) as compared to 2021. The reduction of our Scope 2 emissions was largely due to the reduction in energy consumption from the range of energy saving initiatives implemented in 2022.

With regard to Scope 3, we undertook a preliminary screening exercise to determine the categories most pertinent to our emissions and operations. We then selected the most pertinent categories and undertook detailed emissions calculations based on the requirements stated by the GHG protocol. The Scope 3 categories that we addressed are stated below, and as anticipated fuel-and-energy related emissions are our highest proportion of Scope 3 emissions as a result of our operations as public transport providers.



SCOPE 3 INDIRECT EMISSIONS

216,374 tCO₂e

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

SBS Transit has set ambitious energy savings targets to reduce our Scope 1 and 2 emissions by 25% by 2030.

Our Bus operations will focus on fuel reduction by optimising our bus schedules, inculcating eco-driving behaviour among Bus Captains, and adjusting the deployment of fuel-efficient buses on appropriate routes for fuel optimisation. Committed to energy and emissions reductions, we have developed a data analytics tool to track the actual deployment and theoretical optimal deployment of our fuel-efficient buses. Rolled out in September 2022, it enables us to track and ensure our buses are deployed efficiently to improve fuel consumption.

As a means of further reducing carbon emissions and increasing clean energy production, we worked closely with the LTA to install solar panels on the roofs of the Tuas Bus Terminal, Seletar Bus Depot and Sengkang MRT Depot, which will increase solar energy production capacity by approximately 5MWp.

GRI 302-1: Energy consumption within the organisation

Fuel Type	2020*	2021*	2022
Non-Renewable Fuels - Diesel (L)	139,146,555	133,538,848 ⁴	134,131,446
Non-Renewable Fuels - Petrol (L)	3,010	3,588	2,481

GRI 302-1: Electricity Consumption (kWh)

Energy Type	2020*	2021*	2022
Electricity Purchased (kWh)	423,723,537 ⁵	420,974,535 ⁵	408,298,271
Renewable Electricity Consumed (kWh)	1,631,393	2,149,746	4,108,822
Cooling Consumption (kWh)	4,959,040	3,863,716	4,417,239

GRI 302-1: Electricity sold (kWh)

Energy Type	2020*	2021*	2022
Electricity Sold	111,632	243,612	210,981

GRI 302-3: Energy Intensity⁶

Energy Intensity Type	2020*	2021*	2022
Total Electricity Intensity (kWh/S\$M Revenue)	345,550 ⁵	322,788 ⁵	272,160
Total Fuel Intensity (litres/S\$M Revenue)	113,043	101,875 ⁴	88,519

Includes all types of electricity consumption within the organisation

GRI 302-4: Reduction of energy consumption from 2019 baseline

Energy Type	Total reduction
Electricity Purchased (kWh)	42,854,879
Non-renewable Fuel - Diesel (L)	18,045,344
Non-renewable Fuel - Petrol (L)	664

*In 2020 and 2021, operations were affected due to the COVID-19 pandemic

4 An improvement in our data collection methodologies and accurate bill records has resulted in the revision of fuel data

5 An improvement in our data collection methodologies and accurate bill records has resulted in the revision of electricity data

6 The revenue used to calculate our intensity ratio for 2022 is \$1,515,311,000

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

GRI 305-1: Direct (Scope 1) GHG Emissions⁷

GRI 305-2: Energy Indirect (Scope 2) GHG Emissions

GRI 305-3: Other indirect (Scope 3) GHG Emissions

GHG Emissions (tCO ₂ e)	2020* ⁸	2021* ⁸	2022
Scope 1 (Direct Emissions)	374,171 <i>(69.3% of total emissions)</i>	380,194 <i>(48.0% of total emissions)</i>	381,690 <i>(49.8% of total emissions)</i>
Scope 2 (Indirect Emissions from Electricity)	165,932 <i>(30.7% of total emissions)</i>	173,334 <i>(21.9% of total emissions)</i>	167,439 <i>(21.9% of total emissions)</i>
Scope 3 (Indirect Emissions)	-	238,955 ⁹ <i>(30.1% of total emissions)</i>	216,374 <i>(28.3% of total emissions)</i>

*Scope 1 includes CO₂, CH₄ & N₂

Scope 3 Category	Screened or Calculated	Total emissions (tCO ₂ e)
Category 1: Purchased goods & services	Calculated	53,693.37
Category 2: Capital goods	Calculated	3,394.95
Category 3: Fuel- and energy-related activities not included in Scope 1 & Scope 2	Calculated	134,663.24
Category 4: Upstream transportation and distribution	Screened	743.22
Category 5: Waste generated in operations	Calculated	0.11
Category 6: Business travel	Screened	303.12
Category 7: Employee commute	Screened	14,641.25
Category 8: Upstream leased assets	Screened	2,436.62
Category 12: End-of-life treatment of sold products	Calculated	34.68
Category 13: Downstream lease assets	Screened	6,463.51

Screened Scope 3 categories refer to the categories in which identifies the initial GHG estimation. Calculated Scope 3 categories refer to the categories in which emissions are calculated based on SBS Transit's data.

GRI 305-4: GHG Emissions Intensity¹⁰

Emissions intensity (tCO ₂ e/\$M/revenue)	2020*	2021*	2022
Scope 1 + 2	438.8	422.4	362.4
Total (Scope 1, 2 and 3)	-	604.6	505.2

*In 2020 and 2021, operations were affected due to the COVID-19 pandemic

GRI 305-6: Emissions of ozone-depleting substances (ODS)

GRI 305-7: Nitrogen oxides (NO_x), sulphur oxides (SO_x) and other significant air emissions

Emissions Type (kg)	2022
NO _x	69,662,618.45
SO _x	913,587.01
PM	1,122,556.01

7 EMA OM Grid Emission Factor for 2021: 0.4057kg/CO₂e/kWh

8 With an improvement in our data collection methodologies, our Scope 1 and 2 emissions have been recalculated using the revised figures, leading to a restatement of data

9 In 2022, we undertook a detailed assessment of our GHG inventory including our Scope 3 emissions for 2021

10 The revenue used to calculate our intensity ratio for 2022 is \$1,515,311,000

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

RESOURCE EFFICIENCY

Our approach to resource efficiency considers the impact of our water consumption as well as waste disposal methods of our used products. This section highlights our efforts to minimise our water consumption, reduce, reuse and recycle our waste.

WATER

WHY THIS ISSUE IS MATERIAL

We recognise that water is a limited and invaluable natural resource. Its supply and availability are increasingly vulnerable due not only to the effects of climate change but also the increasing demands of a growing economy. Ensuring the sustainability of the natural resource remains imperative. Therefore,

effective management, efficient use and responsible consumption of water remain crucial in our sustainability ambitions.

HOW WE MANAGE THIS

At SBS Transit, water is largely used for vehicle and premises washing, sanitary appliances and chilled water systems for air-conditioning. Water withdrawn at our premises is provided by the PUB and NEWater. All waste water is discharged to government-operated water reclamation plants for treatment. Our Water Management Workgroup, actively manages and monitors water usage from our operations and seeks out water saving and recycling measures.

OUR GREEN INITIATIVES

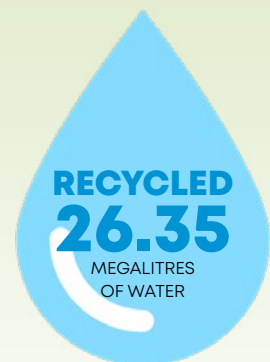


WATER RECYCLING

Our train and bus washing machines are equipped to collect, filter, and recycle approximately 80% of the water used in the washing process. In 2022, we fine-tuned our operational procedures to further optimise water usage, which enabled us to recycle over 26.35 megalitres of water.

WATER EFFICIENT FITTING REPLACEMENTS

Since 2021, we have and continued to ensure efficient and responsible use of water through the installation of water efficient fittings in our taps, sprays and toilet flushing systems. The replacement and installation of over 450 water efficient taps and sprays not only reduced consumption, but also prevented any unwarranted leakage caused by wear and tear. In recognition of SBS Transit's efforts to adopt water efficient measures in our premises and processes, 87 of our bus and train premises received the Water Efficient Building (Basic) Certification from the PUB.



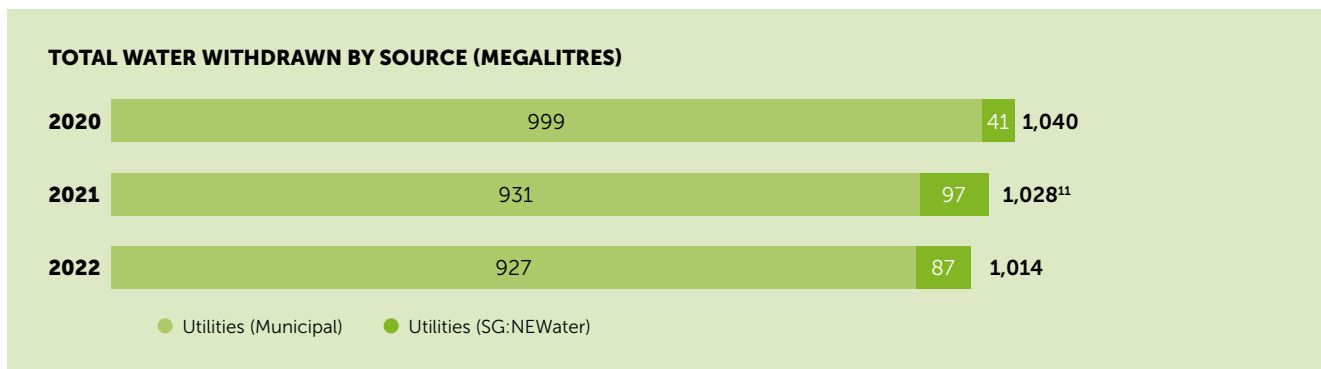
DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

OUR PERFORMANCE AND LOOKING FORWARD

In 2022, as a result of our water saving measures and initiatives, SBS Transit's water consumption decreased by 1.3% as compared to 2021 despite the increase in our operating capacities when Singapore transited out of the COVID-19 slowdown. We will continue in our efforts to

further reduce water consumption by fine-tuning our processes further such as adjusting the nozzles to control and optimise waterflow and even expanding the water catchment structures to increase their capacities to hold more water for recycling purposes.

GRI 303-3: Water Withdrawn by Source



GRI 303-5: Water Consumption

	2020	2021	2022
Total Water Consumption (megalitres)	1,040	1,028 ¹²	1,014

SGX Core Metrics: Water consumption Intensity¹³

	2020	2021	2022
Water intensity (megalitres/\$M revenue)	0.85	0.78	0.67
Total Water Consumption (megalitres)	1,040	1,028	1,014

WASTE MANAGEMENT AND CIRCULARITY

WHY THIS ISSUE IS MATERIAL

In our land scarce country, the management of waste is a paramount issue as reflected in the Singapore Green Plan 2030. Without proper waste management, this can lead to various environmental consequences. SBS Transit remains aware of our waste footprint and has undertaken new initiatives to limit our waste production and recycling efforts.

With regard to waste management, it is also essential to consider waste disposal methods, recycling, and reduction opportunities. Simultaneously, we must also strive to reduce our waste generation through changes to work processes and ultimately, our transportation of waste. Ensuring proper waste and end-of-life management is crucial as waste can compound quickly if left unsupervised, potentially exacerbating land scarcity, health, pollution, and the adverse impact of other negative socio-environmental factors.



¹¹ An improvement in our data collection methodologies and accurate bill records has resulted in the revision of water consumption data

¹² An improvement in our data collection methodologies and accurate bill records has resulted in the revision of water consumption data

¹³ The revenue used to calculate our intensity ratio for 2022 is \$1,515,311,000

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

HOW WE MANAGE THIS

The bulk of SBS Transit's waste is derived from vehicle replacement parts and general waste. The Waste Workgroup remains committed to monitoring and ensuring proper management, disposal, recycling, and reduction of waste through various initiatives and measures. The Workgroup also actively monitors the management and amount of waste generated in operations and through best practice sharing among departments, and business units, initiates improvements to be undertaken.

General waste and mixed recyclables are collected by SembWaste and BNL Waste Management, while other recyclables are collected by dedicated NEA approved recycling companies.

We are committed to reducing the amount of waste generated by our activities and have adopted the following waste hierarchy, which is supported by the NEA.

The elements of the waste and recycling management hierarchy are follows:



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

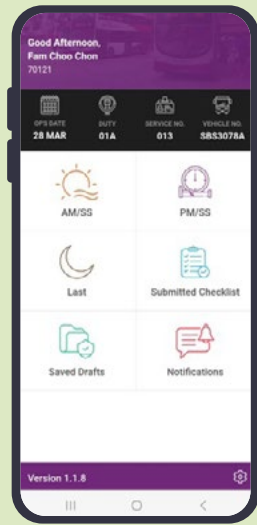
OUR GREEN INITIATIVES

In line with the Singapore Green Plan, we are committed to the national ambition of reducing waste sent to landfills by 20% by 2026.

REDUCE

GOING PAPERLESS

With the use of iMove, a mobile application used by Bus Captains to facilitate the checking of bus condition at the start and end of their duties, we are able to eliminate paper waybill card usage. Additionally, it helps to simplify first and last parade tasks of Bus Captains while optimising work process through the integration of a paperless IT system. Through this, an estimated 1.1 million waybill cards will be saved annually, in addition to savings in manhours for sorting and processing these cards.



ELIMINATING SINGLE-USE PLASTIC BOTTLES

In line with SBS Transit's efforts to be more environmentally conscious in reducing waste, we have reduced the provision of bottled water, which eliminated the use of approximately 60,000 plastic bottles annually since 2022.

ECO-UMBRELLA DRYERS

To prevent waste and reduce safety hazards associated with wet floors caused by dripping umbrellas on rainy days, Eco-Friendly Umbrella Dryers have been installed in all our 50 MRT stations since November 2022. These dryers work by brushing the wet umbrellas against the micro-fibre pads within the dryers. The rainwater is then directed into collection trays. This initiative aims to enhance our commuters' safety and experience within our MRT stations through a green solution.



TYRE RETREADING PROGRAMME

REUSE

While ensuring the roadworthiness of our buses remains a key priority for SBS Transit, we concurrently strive towards circularity by maximising our resources. We continued with our tyre retreading initiative in 2022 where our bus tyres are retreaded twice prior to being disposed.

We were able to reuse more than 22,767 tyres, which reduced our tyre waste by 1,252 tonnes in 2022.

RECYCLE

Tyre disposal is responsibly handled by our recycling partner in Malaysia, which recycles the tyres into crumb rubber via grinding processes.

The crumb rubber is sold to produce repurposed items such as rubber mats, flooring for running tracks and playground fields.



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

REUSE



UPCYCLING OF OLD TRAIN PARTS

In response to the LTA's call for community partners to upcycle old train parts, 15 PAP Town Councils answered and embarked on this meaningful cause under the guidance of the Action for Green Towns Task Force. We are proud to support this initiative to give a new lease of life to old train parts.

UPCYCLING DECOMMISSIONED BUSES

Once our buses reach the end of their product life cycle at 17 years, they are either exported for overseas use or reduced to scrap metals. Through this process, SBS Transit's waste is upcycled and repurposed for continued use, promoting circularity and sustainability.

In 2022, a commercial project undertaken by three private companies transformed 20 of our decommissioned buses into hotel rooms for use at a new local resort. These vehicles are given a new lease of life with a new purpose that promotes sustainability and reduces waste.

RECYCLE

BATTERY UPCYCLING

In 2022, we recycled 224 tonnes of batteries where they were smelted for metals and metal compounds overseas. This was responsibly handled by an NEA appointed recycling company.

FOOD WASTE DIGESTER

In July 2022, our first food waste digester was installed at the Hougang Bus Depot canteen. With the help of micro-organisms, food scraps and preparatory food waste are broken down and converted into liquid which can be discharged safely into the municipal waste stream. In 2022, 504 kg of food waste was diverted from the general waste through this process.



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

OUR PERFORMANCE AND LOOKING FORWARD

In 2022, we recorded a total of 4,951 metric tons of waste since we started to include the measurement of our general waste, which accounted for 36% (1,759 metric tons) of our total waste. As a result, this led to an increase in waste generated. Moving forward, this will form a baseline for our waste reduction targets.

GRI 306-3: Waste Generated

Total Waste Generated (metric tons)	2020*	2021*	2022
Hazardous	168	504	1,336
Non-Hazardous	507	580	3,615
Total	675	1,084	4,951

GRI 306-4: Waste Diverted from Disposal

Waste Diverted from Disposal (metric tons)	2020*	2021*	2022
Hazardous Waste			
Recycled	167	498	1,331
Non-Hazardous Waste			
Recycled	507	580	604
Reused	-	1,467	1,252
Total	507	2,047	1,856

GRI 306-5: Waste Directed to Disposal

Waste Directed to Disposal (metric tons)**	2020*	2021*	2022
Hazardous Waste			
Incineration	1	6	5
Non-Hazardous Waste			
Incineration	-	-	1,759

*In 2020 and 2021, operations were affected due to the COVID-19 pandemic.

**All our waste directed for disposal were incinerated, with none directed to the landfill.

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

SUSTAINABILITY TRANSITION

WHY THIS ISSUE IS MATERIAL

In line with The Singapore Green Plan, the LTA has amplified investments in both infrastructure deployment and capability development to reduce reliance on fossil fuels and internal combustion engine vehicle with the goal of reducing 80% of its land transport emissions by 2050. To achieve this, encouraging the use of public transport is key. As the backbone of Singapore's transport system, public transport is the most sustainable form of motorised transport. A car uses nine times the energy of a bus and 12 times the energy of a train, on a per passenger-km travelled basis.

Supporting the Singapore Government's sustainability goals, SBS Transit understands the importance of sustainability education and engagement to employees and commuters to create a culture that values sustainability and fosters a sense of ownership and responsibility. It also helps to engender an environment of collaboration and cooperation with employees working together towards a common goal.

HOW WE MANAGE THIS

At SBS Transit, we strive to provide reliable public transport services that are convenient and accessible to all users as they are a climate friendly mode of transport.

To meet our sustainability commitments and targets across our organisation, we require a sustainability mindset from Top Management down to our ground staff. It also involves our customers so that they steer towards the available sustainable choice of using public transportation.

Our goal for this plan is to promote a green corporate culture across all our departments where our people know what they can do each day to live a sustainable life-style at work and in their personal spaces.

We will achieve our Sustainable Transition Goals through two core pillars:

1. Engaging and Training our People
2. Involving our Community

TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES

In July 2022, the ComfortDelGro Group published an inaugural TCFD report which identified the relevant physical and transition climate risks and opportunities applicable to the Group's operations. SBS Transit's business and operations were included in this assessment. For more information, please refer to the ComfortDelGro 2022 TCFD Inaugural Report 2022 [here](#).

The groupwide assessment included all ComfortDelGro's operational regions including Singapore where SBS Transit's operations and assets are located. Using 2021 as the baseline year, the potential impacts of these risks and opportunities on SBS Transit were identified from its first phase of its climate scenario analysis. Subsequently, these results were integrated into SBS Transit's overarching sustainability strategy and into our business units' operational strategies for effective management of relevant climate-related risks and opportunities.

This financial year, to achieve a more detailed and robust TCFD disclosure, SBS Transit has commenced our own journey in aligning with the TCFD. We are in the process of collecting, refining and assessing the climate data specific to SBS Transit's business and locations of operations.

This will be featured in our standalone TCFD report slated for release later in 2023. In doing so, we reinforced our ambitions to drive climate-friendly mobility solutions that would reduce GHG emissions for our operations.

OUR INITIATIVES AND LOOKING FORWARD

EXPANDING OUR RAIL NETWORK

In 2022, we operated 78 stations spanning 82 km of rail networks across the North East Line, Downtown Line and Sengkang Punggol LRT systems. In 2024, the NEL will be extended with a new station at Punggol Coast. This will increase railway accessibility for passengers travelling to and living in the developing Punggol town. As the rail network expands, we seek to increase public transport ridership and decrease reliance on private modes, in alignment with the goals and targets of The Singapore Green Plan and sustainability strategies.

We hope to succeed in our bid to operate the upcoming Jurong Region Line (JRL) and the Cross Island Line (CRL) when the tender is called in 2023, which will further expand our rail network and public transportation services. The JRL, which spans over 24km, is expected to be completed by 2029 and the CRL with over 30 stations, will span across 50km, is expected to be completed by 2032.

DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

ELECTRIFYING OUR UTILITY FLEET

As we continued to embark on our electrification journey in 2022, we issued a company-wide mandate that stipulated all future replacements of utility vehicles must be electric vehicles as we transition our fleet of 122 vehicles to green ones.

In Q2 2022, we replaced two diesel maintenance vehicles with fully electric ones at the Sengkang MRT Depot. A DC fast charging station was installed to complement the new vehicles to serve the NEL's operations.



PROVIDING GREATER CONNECTIVITY

We are collaborating with Anywheel - a bike-sharing service provider, to encourage commuters to adopt the Walk-Cycle-Ride approach in their first and/or last mile of travel. With the collaboration, we will display the total number of bicycles available at a bus stop in real-time with their relevant details such as the Bay ID, distance, location and address. With this information conveniently accessible, we seek to encourage the sustainable use of our public transport system.

ENVIRONMENTAL ADVOCACY AND ENGAGEMENT

We are keenly aware that education is key in creating a sustainable future where people understand the importance of preserving our natural resources. The LTA-Public Transport Operators (PTO) collaboration promotes key environmental days, conservation, and sustainable practices by raising awareness amongst our commuters through social media and traditional communication.

Through this collaboration, opportunities are offered to employees to participate in organising, planning, implementing and coordination activities with the LTA and other PTOs. In 2022, we designed electronic direct mails (EDMs) to highlight the importance of natural resource preservation and disseminated them within our company. We also displayed these EDMs on our internal display boards and social media channels as well as on digital display panels at our bus interchanges and terminals to advocate for more sustainable habits.



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

ENGAGING AND TRAINING OUR STAFF

ENGAGEMENT TALKS ON SUSTAINABILITY

Sustainability sharing sessions are held on a quarterly basis to educate and inspire staff to adopt green practices to drive a culture of sustainability within the workplace. Topics on waste reduction, energy conservation, water efficiency, carbon emissions reduction and sustainable sourcing that are related to work and daily living are shared. The sessions provide a platform to create opportunities for staff involvement and ownership which also help to foster a more cohesive and engaged workplace.



FREE COFFEE WITH REUSABLES

In 2022, SBS Transit hosted a bring-your-own cup or bottle initiative at its Ang Mo Kio depot. Employees were encouraged to bring their own tumblers to obtain free cups of coffee and tea at the canteen. Over a 14-day period, we used an estimated 2,100 cups less than usual. Encouraged by the results, we initiated another trial with National Transport Workers' Union (NTWU) at the Ang Mo Kio Depot and Seng Kang Depot canteen in November 2022 where a 10 cents rebate is given for the purchase food and drinks whenever a reusable container is presented for use. In doing this, SBS Transit hopes to convey the importance of a circular economy through material reuse and a reduction in waste generation.

A graphic for the 'TAKE Public Transport TO WORK' campaign. It features a dark background with a gold starburst that says 'OPEN TO ALL!'. The main text reads 'TAKE Public Transport TO WORK' with 'Public Transport' in a script font and 'TO WORK' in bold. Below this, it says '20 - 30 JULY'. There are two illustrations: a purple and white train and a red and white SBS Transit double-decker bus. Text boxes provide information: 'Reduce greenhouse gas emissions by taking public transportation.' and 'The carbon emissions generated per passenger for a car trip is 3x that of an e-bus and 6x that of an MRT trip for the same distance'.

TAKE PUBLIC TRANSPORT TO WORK CAMPAIGN

Although we provide free rides on public transportation to all our employees as a standard staff benefit, we also intentionally launched monthly "Take Public Transport" campaigns during the last week of each month. This is targeted at encouraging employees who drive or take private transport to use public transport for at least a day. In 2022, a total of 2,157 employees participated in the campaigns, which translated to an estimated reduction of 43.66 tonnes of carbon emissions.



DRIVING ENVIRONMENTAL STEWARDSHIP TO ENHANCE SUSTAINABILITY IN SINGAPORE

ENGAGING OUR COMMUNITY

We leverage our public influence through our support of the “Say Yes to Waste Less” campaign by NEA to encourage the community to adopt a sustainability-centred lifestyle by reducing single-use disposables and food wastage. This year, we encouraged Bring-Your-Own (BYO) containers in place of single-use ones when ordering take-aways. Leveraging on our large commuter base, we will continue to seek out opportunities to engage the public in reducing waste.



As we encouraged more people to shift towards a more sustainable lifestyle, we collaborated with ITE College East to conduct a “Less Plastic is Fantastic” roadshow from 13 to 16 September 2022 at the Sengkang Integrated Transport Hub. Members of the public were encouraged to pick up or drop-off used but clean plastic bags and be more mindful in the use of these bags. Approximately 300 bags were collected and redistributed over the four-day event.



LOOKING FORWARD

At SBS Transit, we strive to continually provide reliable public transport services to encourage usage as part of our commitment towards promoting sustainability. In our sustainable transition, we comply strictly with all relevant environmental laws and regulations in Singapore. In 2022, we had zero cases of non-compliance with environmental laws and regulations.