

RECYGLO CARBON FOOTPRINT REPORT

2022-2023



CARBON FOOTPRINT REPORT FOR 2022 AND 2023



RecyGlo's Approach to Science-Based Decarbonisation Targets

Decarbonisation Targets (Internally Aligned with SBTi Framework)

- Scope 1 & 2: Internally aligned with a 1.5°C pathway compared to pre-industrial levels.
- Scope 3: Internally aligned with a well-below 2°C pathway.

SBTi Methodology Reference

RecyGlo uses the SBTi guidelines as a reference framework to define its internal targets.

We have not yet formally pledged to SBTi or submitted targets for external validation.

Future commitments may be considered based on our long-term carbon reduction strategy.

Our Internal Targets

- ✓ 95% coverage of Scope 1 & 2 emissions.
- ✓ 67% coverage of material Scope 3 emissions (if Scope 3 \geq 40% of total emissions).
- ✓ Near-term reduction targets aimed for 2030; net-zero strategy aligned before 2050.

Note: While RecyGlo has not officially committed to SBTi, our internal targets are designed to follow its global best practices.

In align with





TABLE OF CONTENT



1 EXECUTIVE SUMMARY



2 INTRODUCTION



3 TRANSPORTATION



4 ELECTRICITY



5 co₂emission analysis, 2022



6 co₂emission analysis, 2023



7 GROSS ANNUAL WASTE GENERATION



8 GHG REDUCTION



9 YEARLY WASTE COMPOSITION (%)



10 WASTE MANAGEMENT



11 TRAVEL AND BUSINESS TRIP



12 COMPARISON OF SCOPE 1, 2 AND 3



13 Recommendations



14 CARBON OFFSETTING ACTIVITIES



15 CONCLUSION



16



EXECUTIVE SUMMARY



RecyGlo Company PTE LTD's Carbon Report offers a comprehensive examination of the environmental footprint resulting from its operations, with a specific focus on efforts to reduce carbon dioxide (CO₂) emissions and enhance waste management practices. Through rigorous data collection and analysis, the report provides valuable insights into various aspects of RecyGlo's sustainability initiatives, shedding light on key trends and outcomes.

The report commences by identifying the primary sources of CO₂ emissions, encompassing electricity consumption, transportation activities, and waste generation. Through detailed comparisons between 2022 and 2023, discernible patterns emerge, including the impact of waste management contracts on electricity usage and seasonal fluctuations in transportation emissions.

Additionally, the report delves into annual waste generation and composition, revealing shifts in the types and quantities of waste produced over time. Notably, RecyGlo's interventions have resulted in reductions in overall waste generation, with notable changes observed in the composition of waste streams. These findings underscore the efficacy of RecyGlo's waste management strategies in mitigating environmental impacts.

Furthermore, the report quantifies RecyGlo's contributions to greenhouse gas (GHG) reduction, providing concrete figures on the CO₂ savings associated with waste diversion and recycling efforts. By articulating the tangible environmental benefits of its services, RecyGlo underscores its commitment to driving positive ecological outcomes.

Beyond quantifiable metrics, the report underscores the broader societal and ecological benefits of RecyGlo's initiatives. From supporting orphanages and crisis-affected areas to combating plastic pollution and promoting sustainable fashion practices, RecyGlo's multifaceted approach to sustainability transcends mere carbon accounting. Through innovative campaigns like the Plastic Prevention Campaign, RecyGlo actively engages communities and fosters a culture of environmental stewardship.

In conclusion, RecyGlo Company PTE LTD's Carbon Report highlights the organization's steadfast dedication to sustainability, community engagement, and positive environmental impact. By leveraging data-driven insights and innovative strategies, RecyGlo continues to lead the way toward a greener, more resilient future, where waste is minimized, resources are conserved, and communities thrive in harmony with nature.



RecyGlo

INTRODUCTION

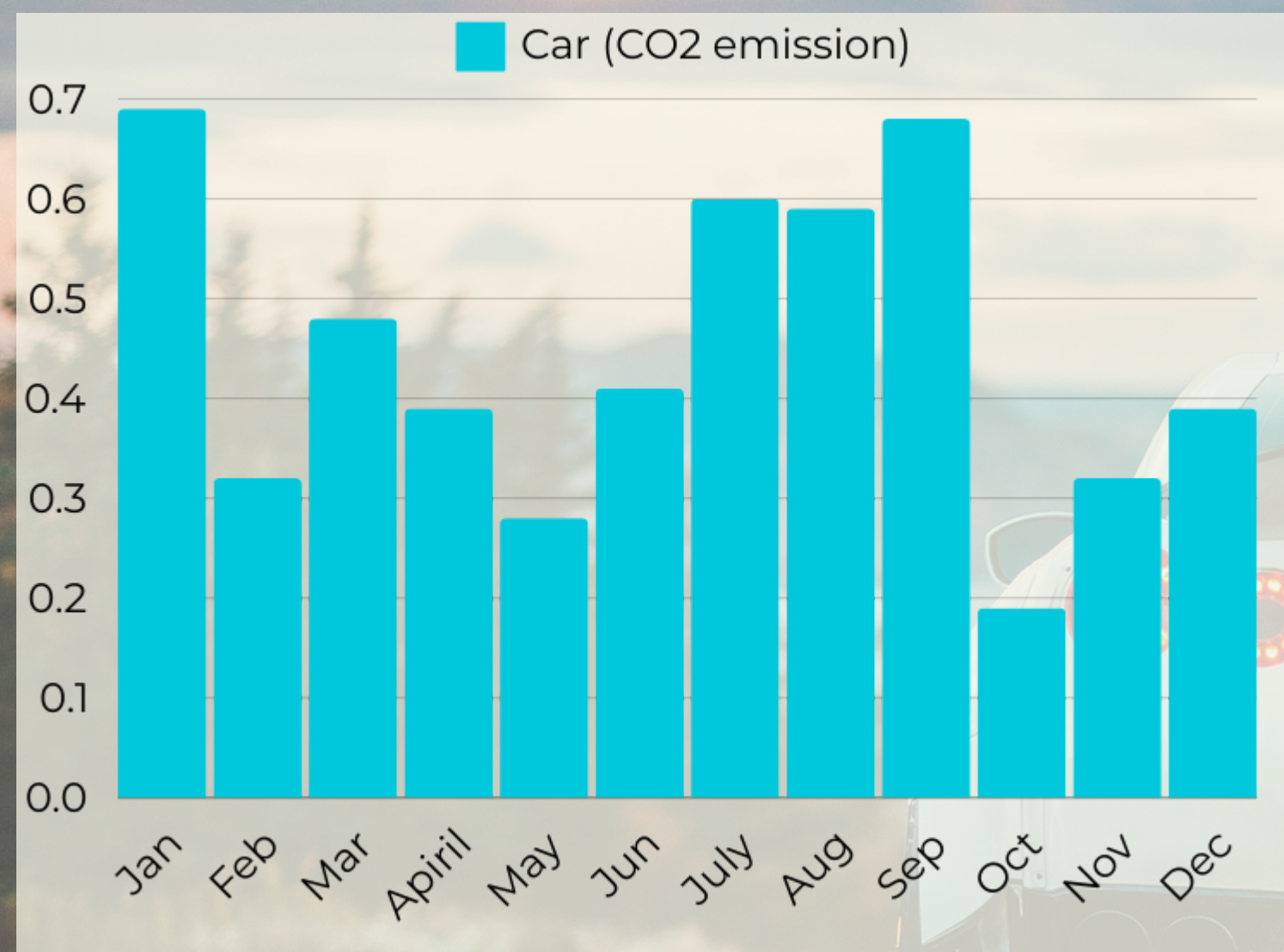
Within RecyGlo Company PTE LTD's commitment to environmental stewardship, this report serves as an indispensable tool for evaluating our carbon footprint and identifying avenues for further carbon reduction endeavors. As a company deeply entrenched in sustainability principles, understanding and mitigating our carbon emissions are paramount to our ongoing endeavor to foster a positive environmental impact.

Across our operations, spanning multiple regions and markets, this report provides a comprehensive overview of RecyGlo Company PTE LTD's carbon emissions, shedding light on our efforts to minimize our environmental footprint and pave the way for a more sustainable future. Through transparency and accountability, we aim to demonstrate our dedication to carbon reduction and environmental responsibility, aligning our actions with our core values and commitment to a cleaner, greener planet.

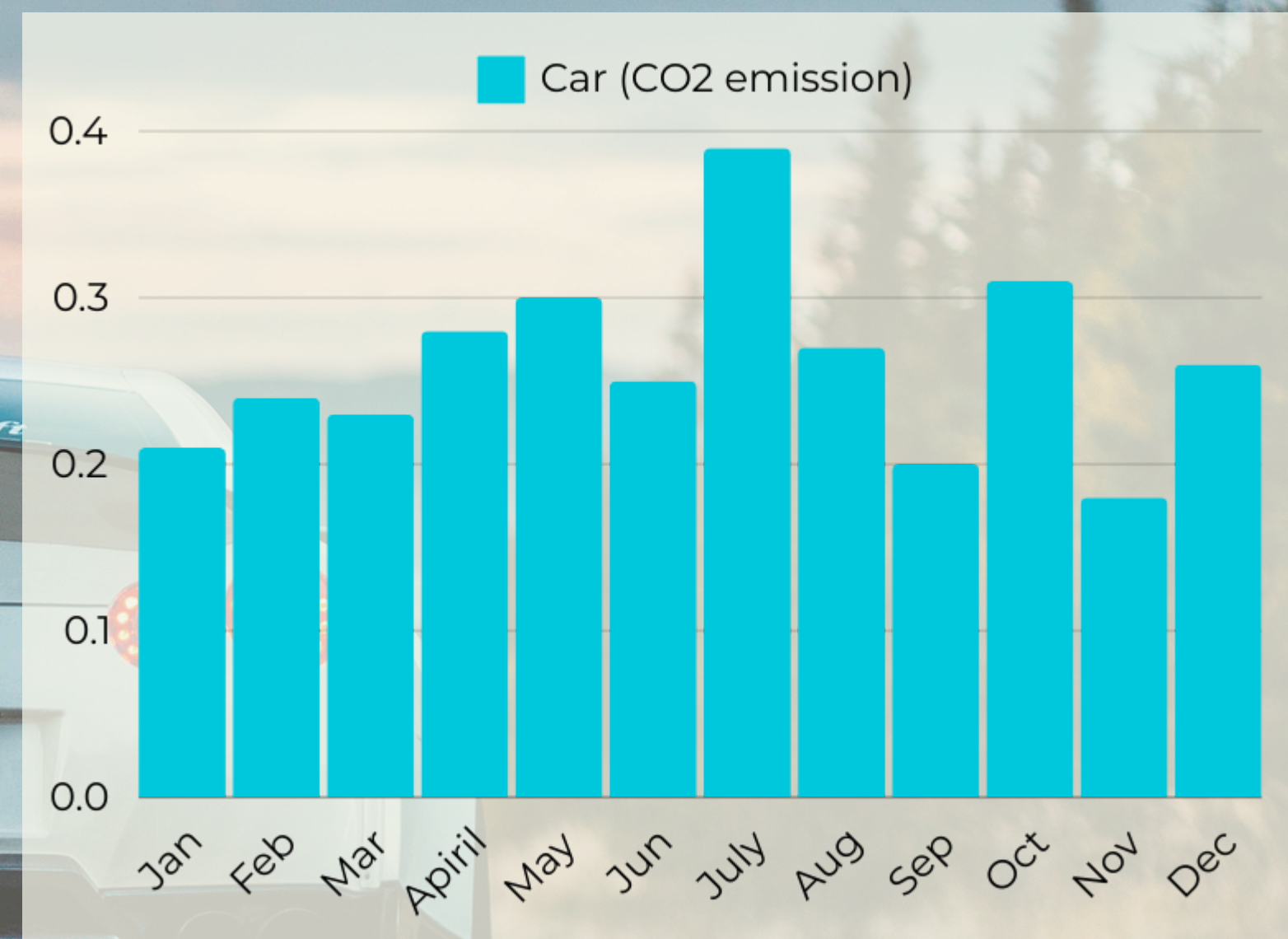




TRANSPORTATION



Monthly of Car Carbon Emission, 2022

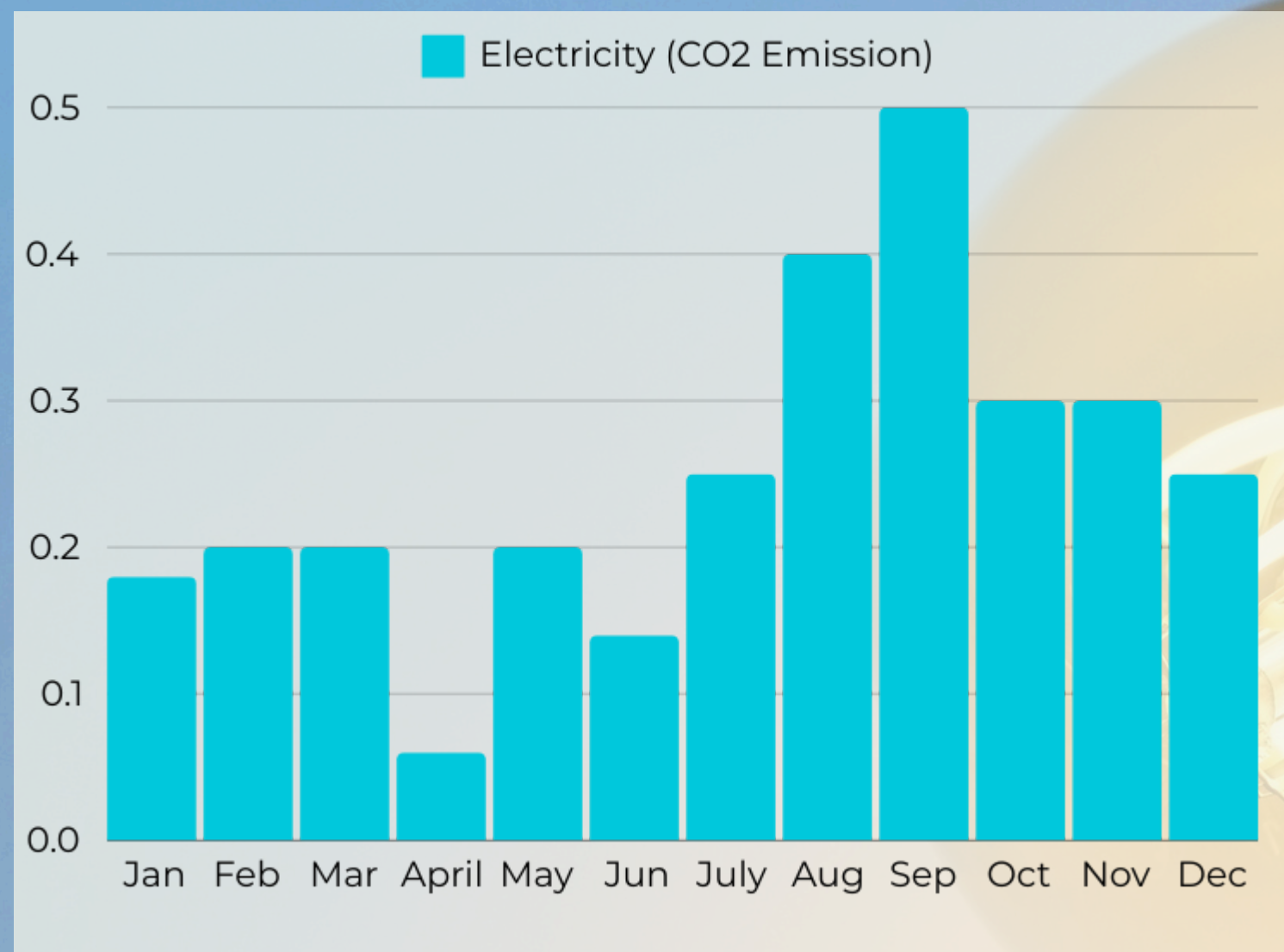


Monthly of Car Carbon Emission, 2023

The peak emissions for October 2022 are lower due to the conclusion of B2B waste management quarterly contracts in September, with new contracts being established in October.

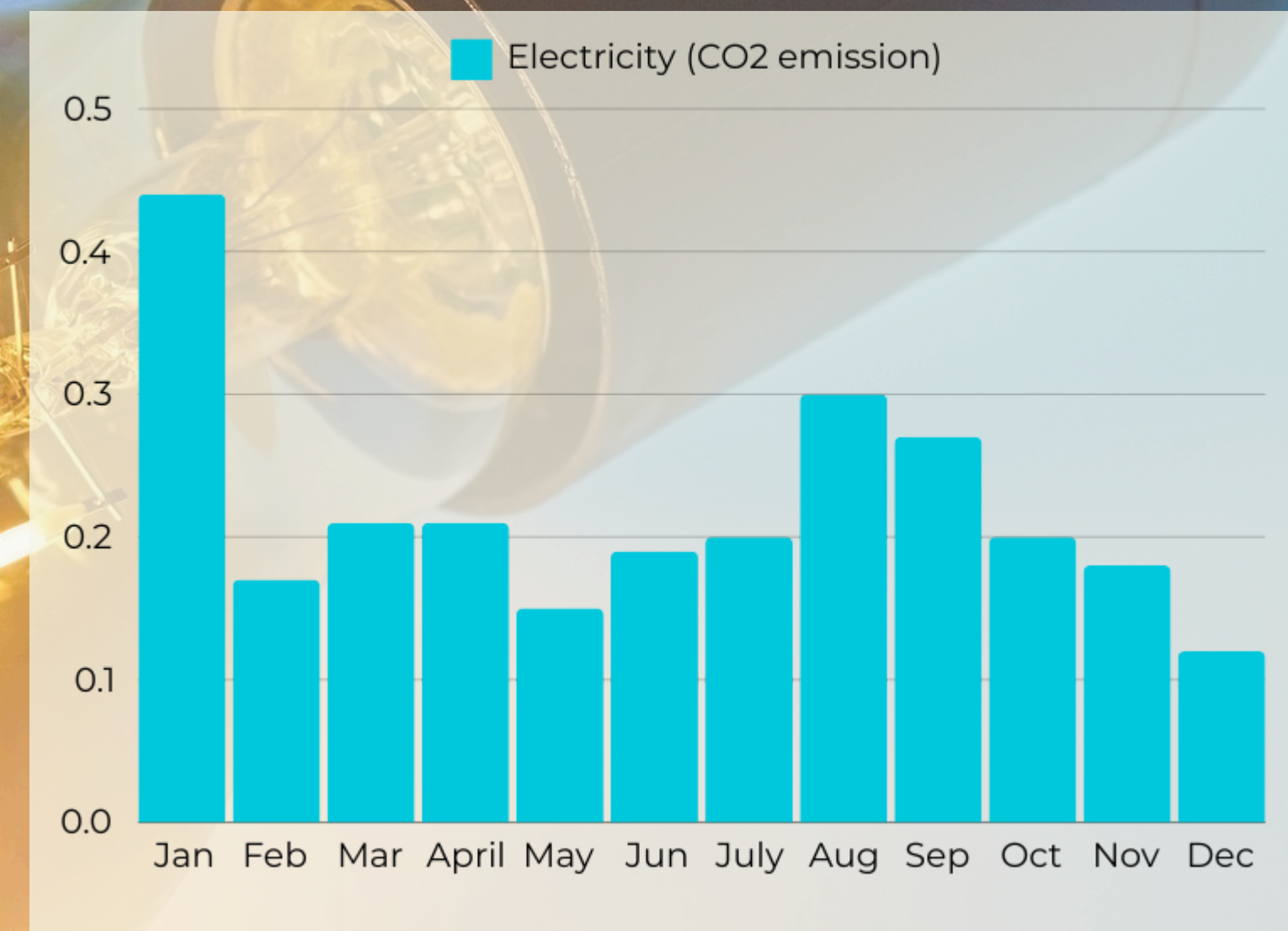


ELECTRICITY



Monthly of Electricity Emission, 2022

Note : The CO2 emission of electricity for both our factory and office combined is lowest in April and highest in September, likely attributed to reduced operational activities during the Thingyan festival holidays in April and increased electricity usage due to a higher number of interns from June to September.



Monthly of Electricity Emission, 2023

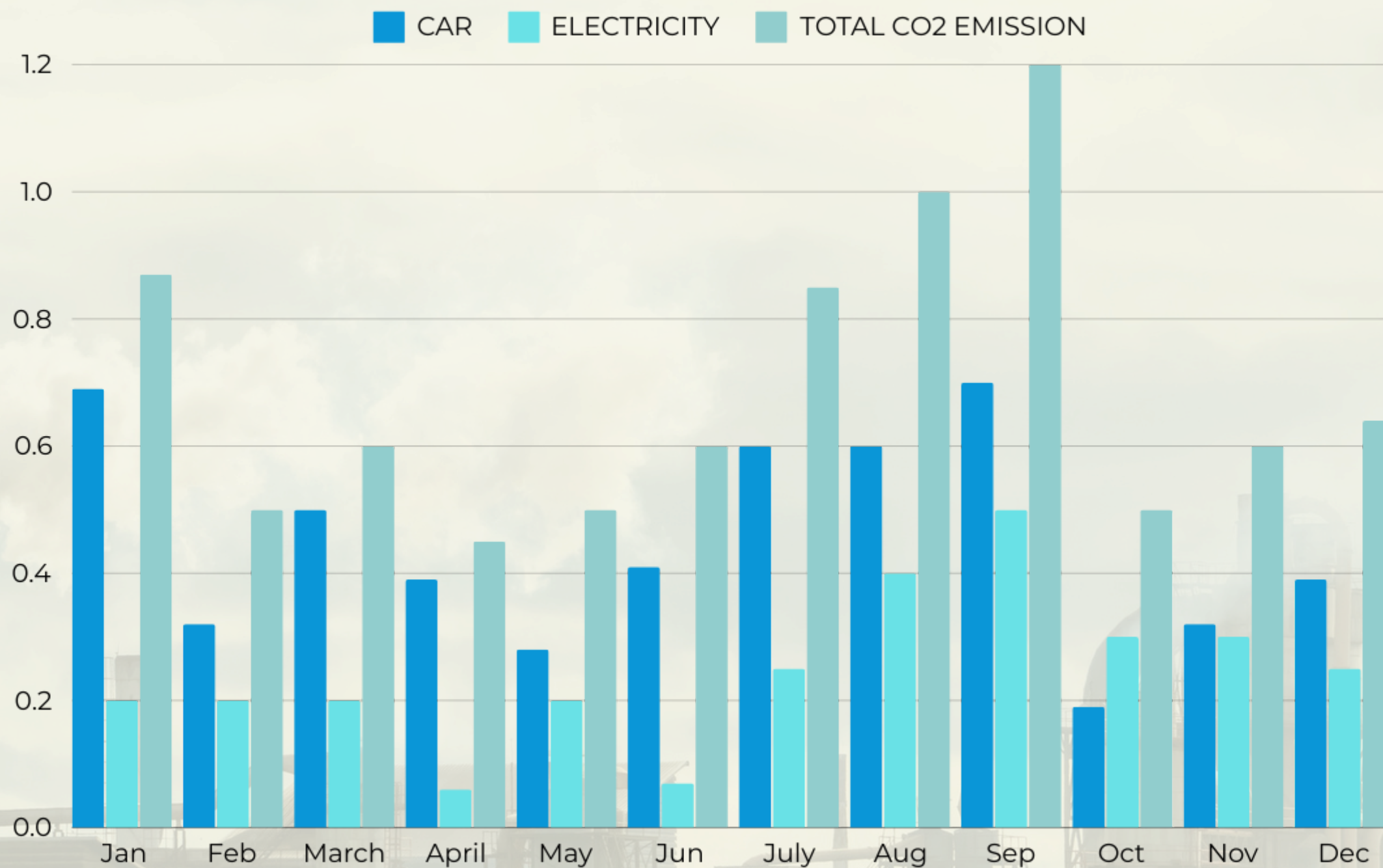
Note : The CO2 emission of electricity for both our factory and office combined is lowest in December and highest in January, potentially due to increased operational demands during the peak season for destruction in January and a decrease in workforce following employee departures in November.



CAR, ELECTRICITY & TOTAL CO2 EMISSION

2022

co2 emission analysis, 2022



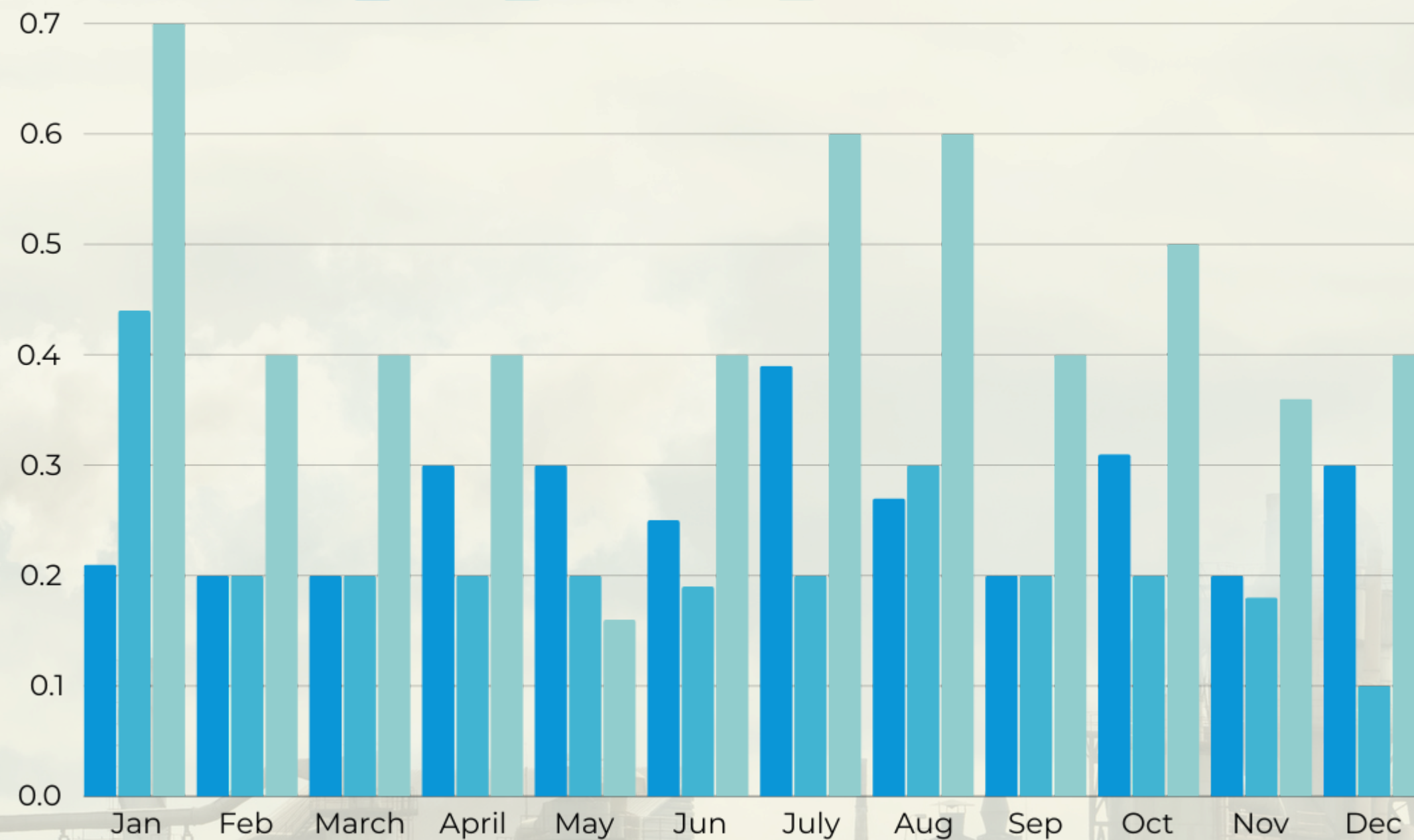


CAR, ELECTRICITY & TOTAL CO2 EMISSION

2023

co2 emission analysis, 2023

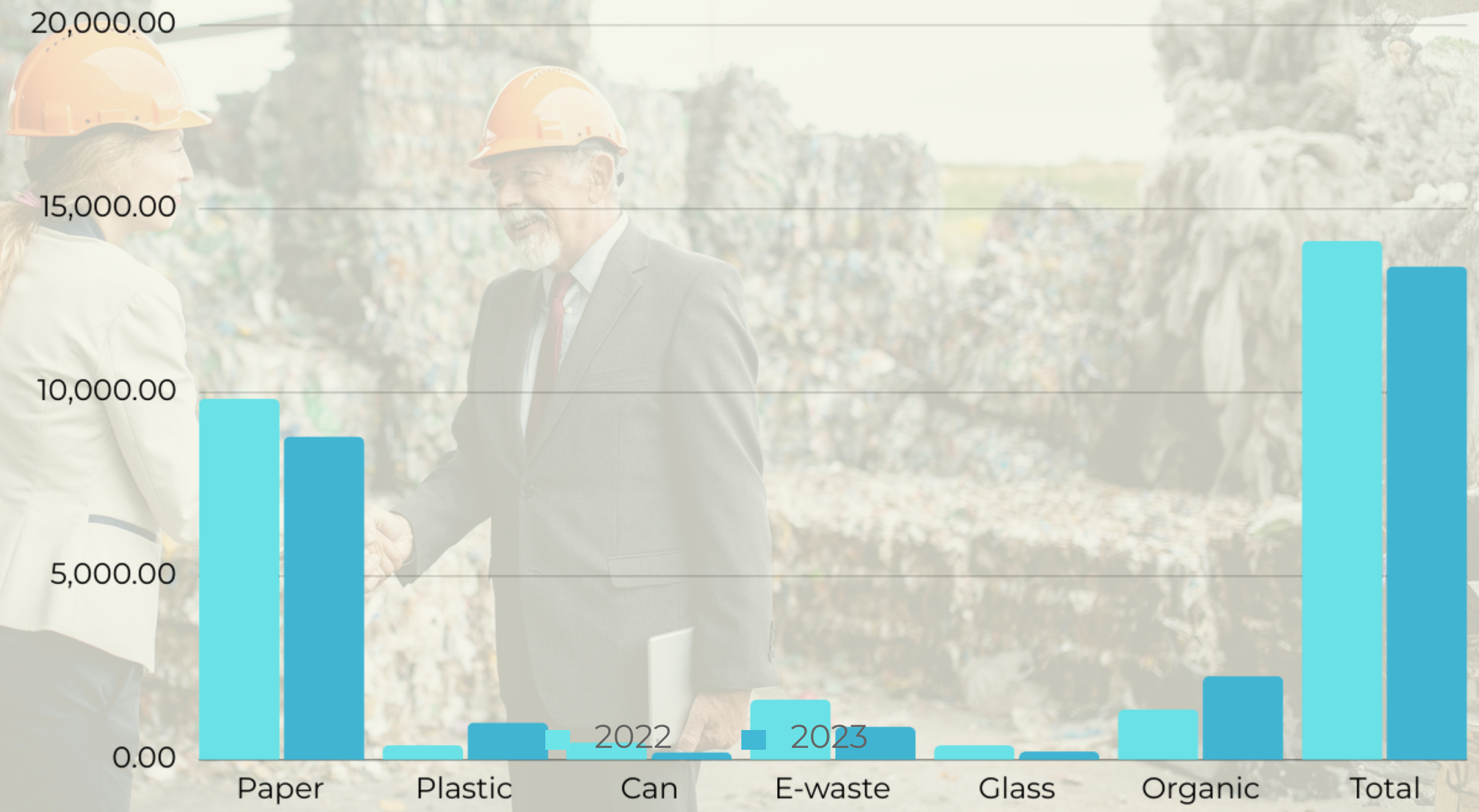
CAR ELECTRICITY TOTAL CO2 EMISSION



GROSS ANNUAL WASTE GENERATION

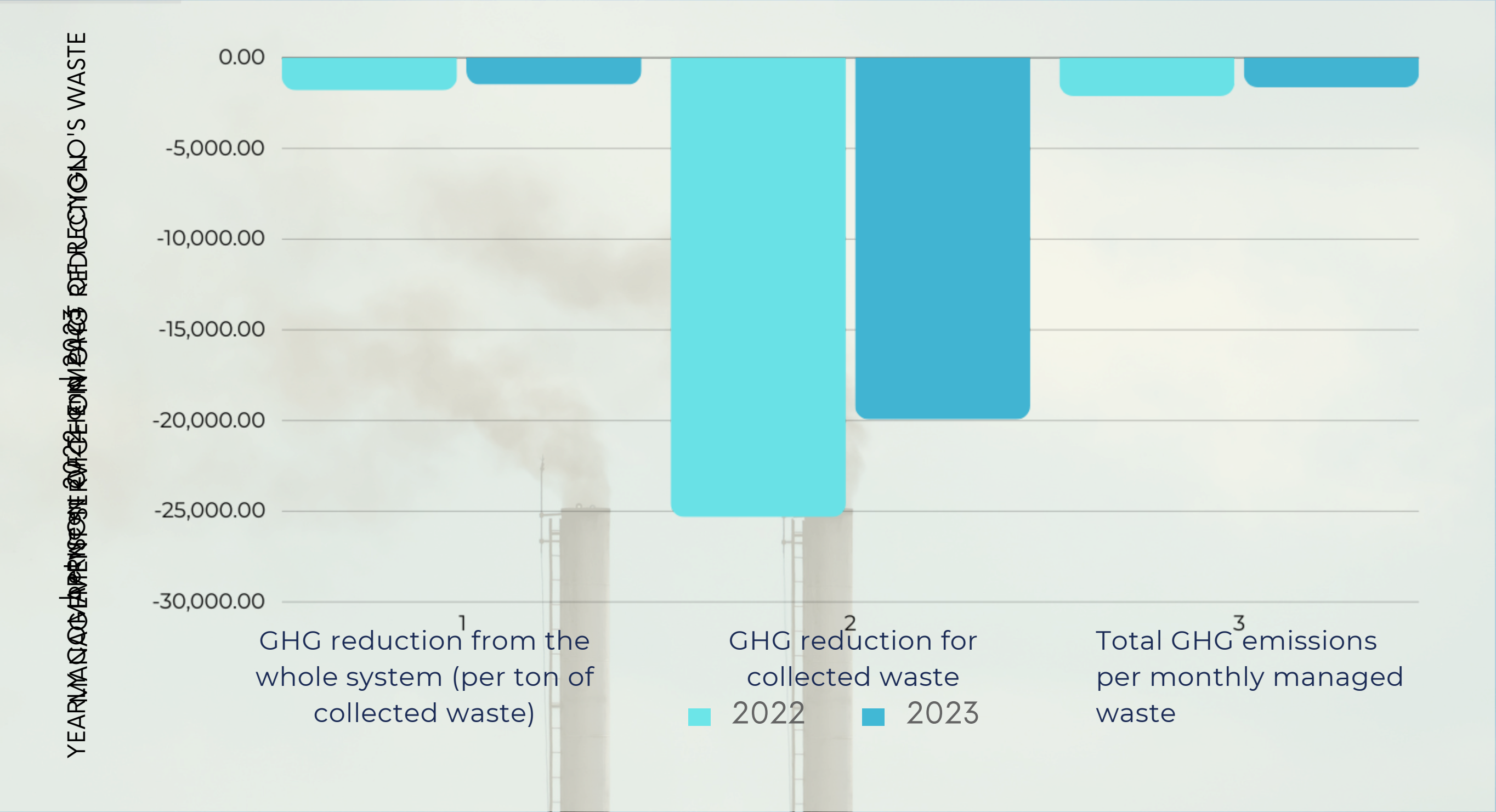


GROSS ANNUAL WASTE GENERATION OF CLIENTS IN 2022 AND 2023



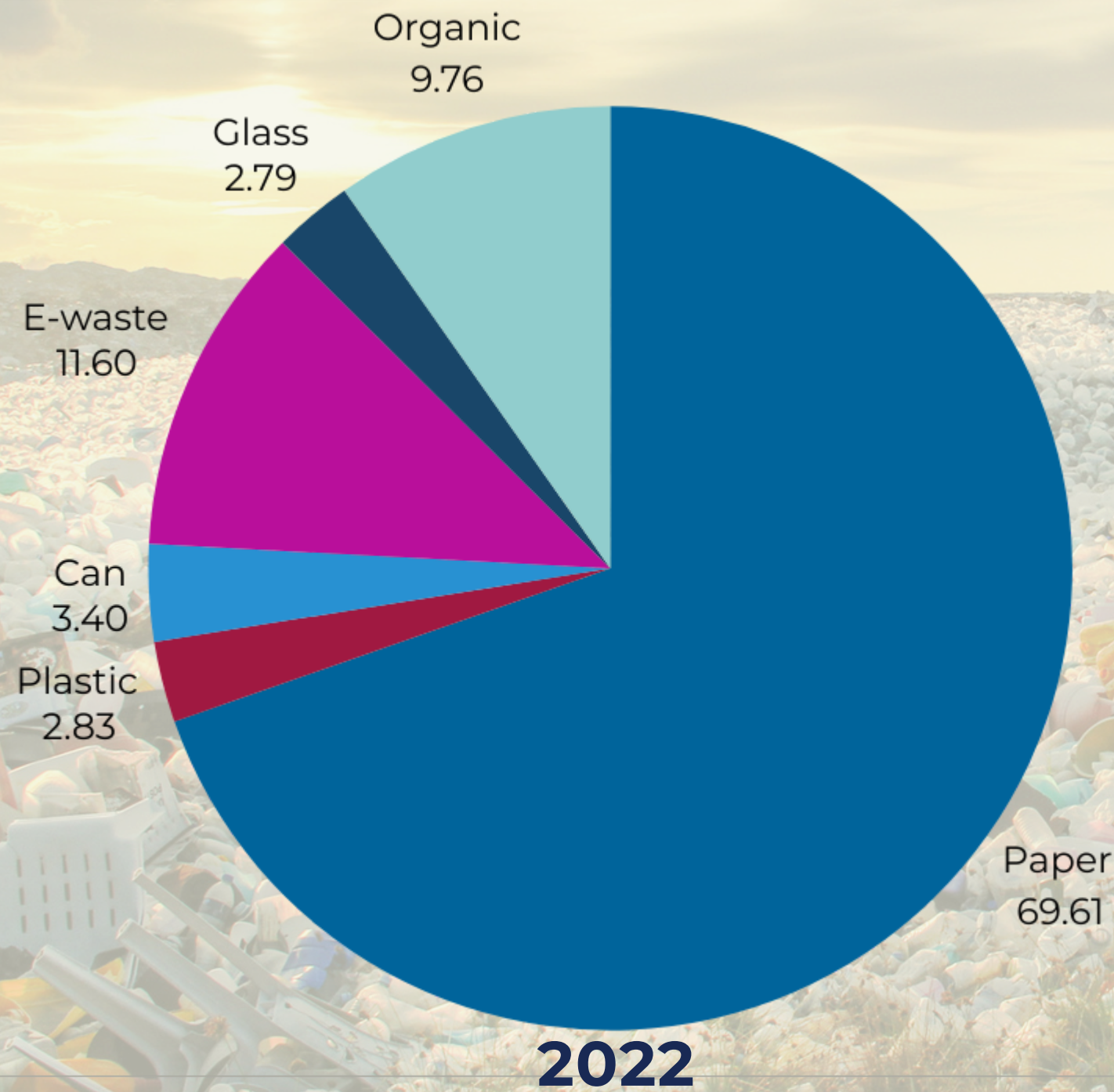


GHG REDUCTION

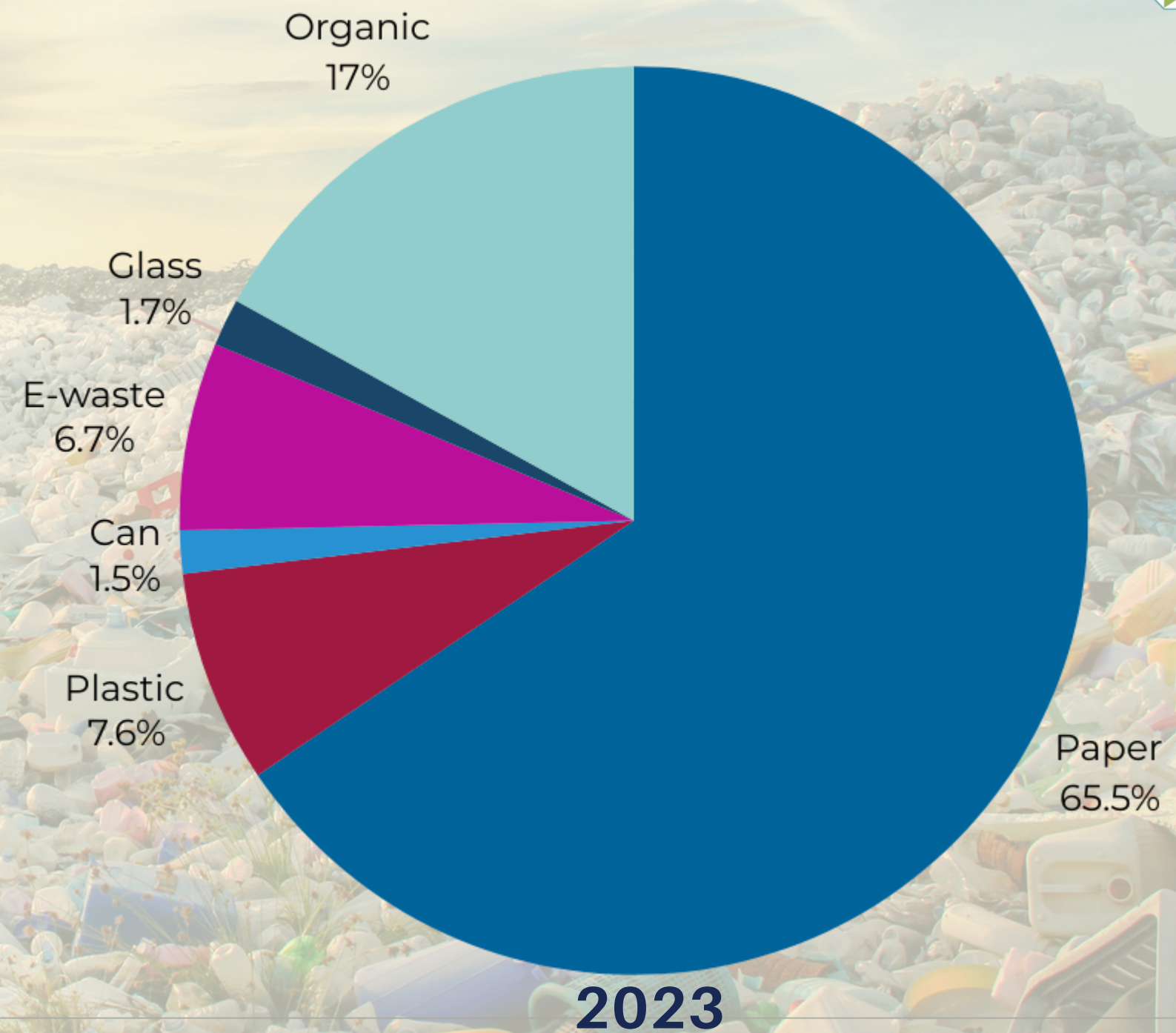


***The GHG reduction for collected waste was calculated by multiplying the reduction from the whole system per ton of waste with annual collectable amount for each year.**

YEARLY WASTE COMPOSITION (%)



■ Paper ■ Plastic ■ Can ■ E-waste ■ Glass ■ Organic





WASTE MANAGEMENT



1

WASTE MANAGEMENT

Through our services, our clients diverted 14,127.13 kg in 2022 and 13,435.09 kg of recyclable waste that has been upcycled nationally in compliance with the requirements suggested by ISO 14001-2015, YCDC, and SDG goals.

DIRECT EFFECT

2

CARBON Footprint Offset & Climate Change

Our clients avoided letting their waste be landfilled. By recycling paper, plastic, cans, e-waste, glass, and organic waste, they reduced the footprint of their generated waste, thus contributing through RecyGlo's services to reducing the effects of climate change.

INDIRECT EFFECT

3

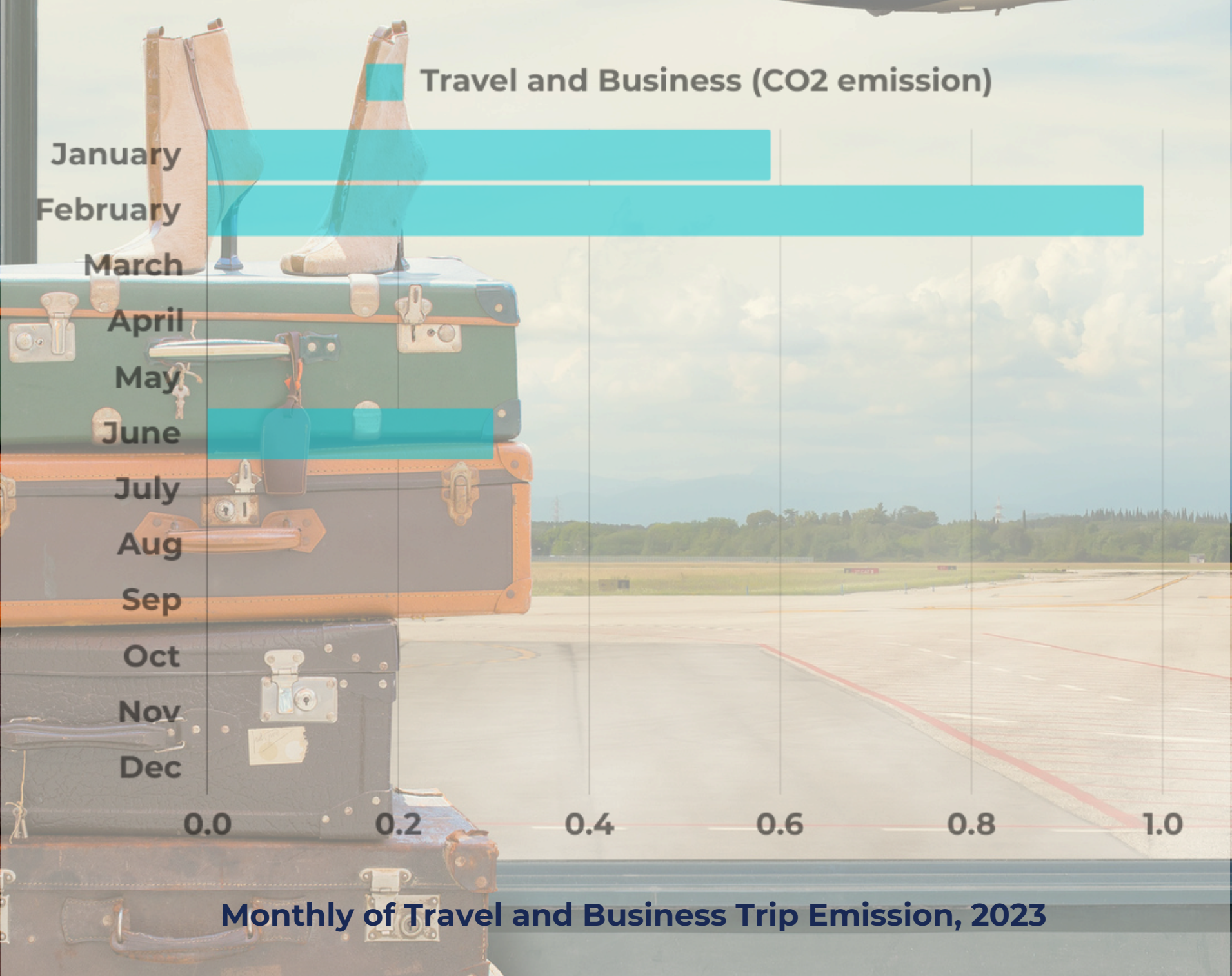
LAND & MARINE LIFE PROTECTION

Land and marine pollution involve all kinds of spills of substances in land and marine environments. Plastic is a major cause of pollution for land and marine animals. Our clients stopped 399.43 kg (in 2022) and 1,019.37 kg (in 2023) of plastic from being landfilled and prevented this sort of major threat to marine life from ending up on our land, in rivers, and in the oceans.

INDIRECT EFFECT



TRAVEL AND BUSINESS TRIP





COMPARISON OF SCOPE 1,2 AND 3



Category	Scope 1 2022 (Car)	Scope 1 2023 (Car)	Scope 2 2022 (Electricity)	Scope 2 2023 (Electricity)	Scope 3 (Travel)
Average Emissions (Total CO2 Emission)	0.44 5	0.23 5	0.2 5	0.2 5	0.2 2
Maximum Emissions (Total CO2 Emission)	0. 7	0. 4	0.5	0. 4	1.0
Minimum Emissions (Total CO2 Emission)	0.2	0. 0	0.1	0.1	0. 0

Key Observations

Scope 1 emissions from car usage decreased significantly from 2022 to 2023, with an average reduction from 0.445 tCO₂ to 0.235 tCO₂.

Scope 2 emissions from electricity usage remained consistent between 2022 and 2023, with an average of 0.25 tCO₂ in both years.

Scope 3 emissions from travel and distribution were only available for 2023, with an average of 0.22 tCO₂ and a maximum emission of 1.0 tCO₂.



RECOMMENDATIONS



Office

Building Administrative controls and technology can help lower carbon emission footprint.

Administrative Controls

- Lighting : dimming the lights during the lunchtime, turning off the lights when not using and utilizing natural light whenever possible;
- Heat and Cooling : utilizing natural ventilation as much as possible, keeping the thermostat or air-conditioning temperatures between 24°C and 27°C;
- Office and Kitchen Equipment : encouraging employees to turn off the laptop and other equipment when they are away from their offices or work.

Efficient Technology

Electrical appliances such as printers, electric bulbs, air conditioners and refrigerators, and office facilities such as toilets and water taps should be replaced with energy and water efficient technology. For example, a low energy light bulb can reduce 50 Kg of carbon emission yearly.





RECOMMENDATIONS

Transportation



Business Travel

- Air traveling should be reduced when possible by considering less carbon intensive alternatives such as traveling by rail or bus. For the same distance, traveling by rail can reduce the carbon emission up to 40% - compared to air travel.
- The need for traveling can be reduced by using video and audio conferencing technology.

Employee Commuting:

- Teleworking (or working remotely) rather than commuting can be considered. Telework through Skype or Zoom can prevent considerable amount of CO2 emission.
- Transfer can be arranged for employees to reduce the number of car trips taken by individuals. Employees should be encouraged to use the bike or car pool or to walk. Car sharing can reduce the carbon emission by 50-80%.





CARBON OFFSETTING ACTIVITIES

Donation of Affordable Recycled Notebooks



This offsetting scheme allows one to buy a ton of recycled paper for US\$ 909 offsetting a comparatively low 0.21 T/CO₂. Nonetheless, this carbon offsetting practice has an added community value as stated above. Recycling paper avoids direct carbon emission from paper decomposition amounting to 212 Kg of carbon dioxide per ton.

1 T of Recycled Books = 0.21 Metric Tons of CO₂e





CARBON OFFSETTING ACTIVITIES

Empowering Communities Through Sustainable Fashion



Thrift Fashion Truck was born from the realization of the excess clothing in our closets, aiming to address textile waste challenges by creating a mobile platform for facilitating clothing exchange and advocating reuse within communities. Through collaboration and innovation, we've transformed this vision into a tangible force for positive social and environmental impact. **We have been able to donate 3,270 pieces items of clothing to a total of 7 places** including orphanages, schools for the blind, flooded cities, & refugees. Our initiatives have generated significant social impact, including the reduction of carbon footprints and providing support to orphanages and crisis-affected areas.

By donating 3,270 pieces of clothing, a total of 9,810 kilograms of CO2 emissions have been saved, based on the estimate of 3 kilograms of CO2 saved for each high- or medium-quality piece of clothing reused, according to EuRIC.





CARBON OFFSETTING ACTIVITIES

Thrift fashion truck activities



Established on May 9, 2023, RecyGlo emerged with a clear mission, to address textile waste challenges and promote sustainable fashion practices. Our journey began with a strong commitment to environmental sustainability and community engagement, igniting a movement toward transformative change.

Since our inception, RecyGlo has achieved significant milestones in advancing sustainability and supporting communities. **By repurposing over 7,000 pieces of clothing and diverting 1,600 kilograms of textile waste from landfills**, we've made a tangible impact. Additionally, our thrift shopping initiatives have helped reduce carbon emissions by **approximately 5,600 kilograms**, contributing to climate change mitigation efforts, based on the estimate of 3 kilograms of CO2 saved for each high- or medium-quality piece of clothing reused, according to EuRIC.

Our evolution from concept to catalyst for sustainable fashion underscores the power of collective action and community engagement. As we continue to grow, RecyGlo remains dedicated to promoting environmental responsibility, fostering community connections, and driving meaningful change.

Inspired by the realization of excess clothing in our closets, RecyGlo was conceived as a mobile platform for facilitating clothing exchange and advocating reuse within communities. Through collaboration and innovation, we've transformed this vision into a tangible force for positive social and environmental impact. With these activities, we have generated significant social impact, reducing carbon footprints, and providing support to orphanages and crisis-affected areas.





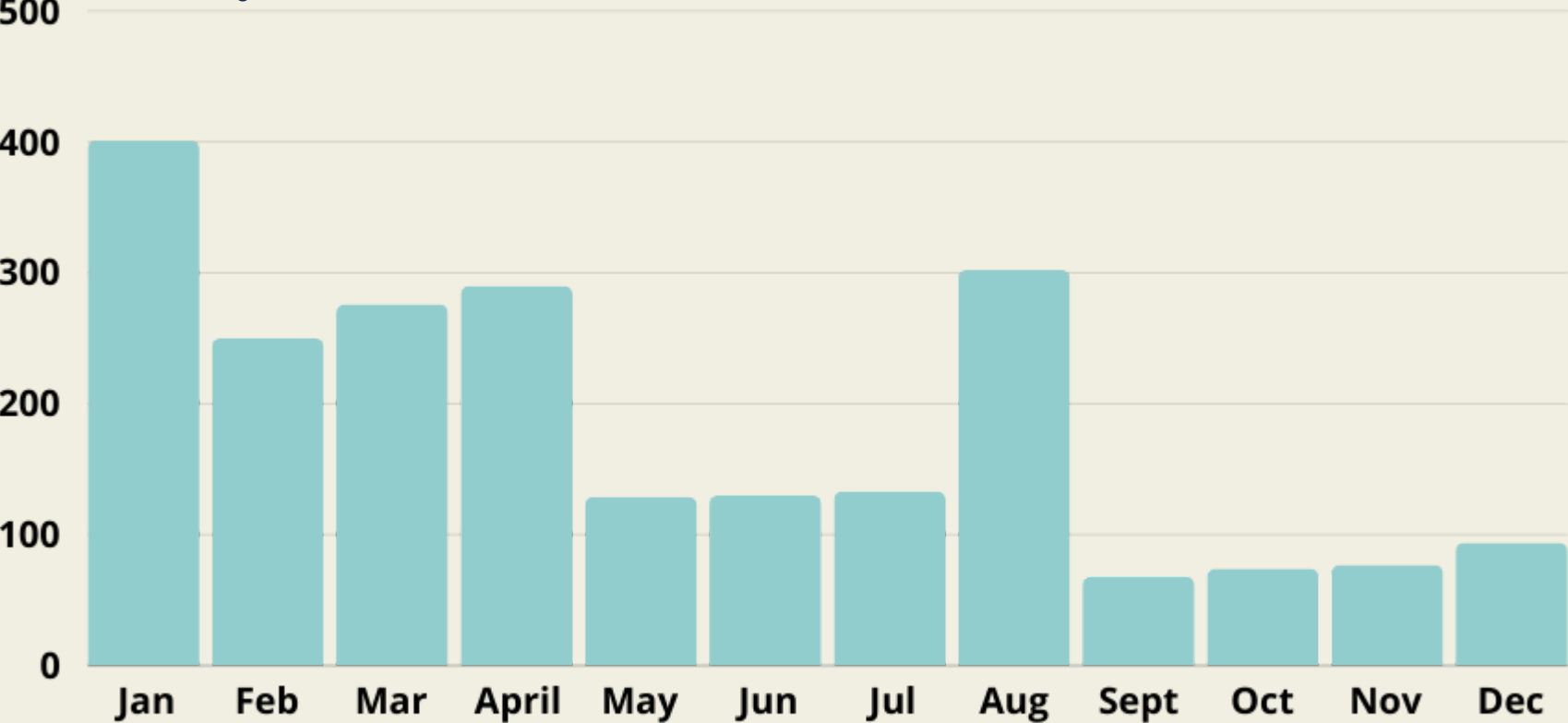
CARBON OFFSETTING ACTIVITIES



"**Plastic Prevention Campaign**," aimed at mobilizing communities to combat the pressing issue of plastic waste. Recognizing the detrimental impact of plastic pollution on the environment and human health, RecyGlo sought to inspire action and foster a culture of responsible waste management.

The campaign leveraged innovative strategies to incentivize individuals to participate in plastic waste reduction efforts. Through the deployment of designated trash cans and reverse vending machines, individuals were encouraged to properly dispose of plastic bottles filled with sachets. For every ten bottles deposited, participants received a reward of 100Ks per bottle, coupled with an additional 1000Ks for every set of ten bottles, thereby providing tangible incentives for responsible behavior.

Over the course of 2023, RecyGlo's Plastic Prevention Campaign achieved remarkable success, demonstrating the efficacy of community engagement in driving positive change. **We could have saved a total bottles of 2,124 from going into the sea, which is converted to 174,592.8g of CO2 is saved, based on the estimate of 3 kilograms of CO2 saved for a single 1-liter plastic water bottle, according to Anne Galyean et al. .**The campaign not only facilitated the proper disposal of plastic waste but also had a profound social impact by instilling a sense of environmental responsibility among participants. By actively involving individuals in environmental stewardship, RecyGlo not only addresses the immediate issue of plastic pollution but also fosters a long-term commitment to sustainability.



ဖုန်းဘေလ်လာယူပါ !

(From Oct 2021 - April 2022)

“ ဇွန်ပတ်လတ်စတင် (အသုံးပြုမှုများ အပြည့်သိပ်သည်းသော ရေသန့်ပတ်လတ်စတင်ဘူးများပေါ်တွင် အမည်၊ ဖုန်းနံပါတ်ရေးပြီး နီးစပ်ရာ RECYGLO ပုံဆွဲသွယ်တင်ပြန် ဖုန်းဘေလ် ရယူလိုက်ပါ။ ”

1,000 Kyats for **10** bottles

Hotline: 09 740 915 551

သတိ !! မထည့်ရ X

ညွှန်းပတ်အမှတ်များ၊ ချွန်ထုတ်သောပစ္စည်းများ၊ စက္ကူ၊ အစားအသောက် နှင့် အခြားသောပစ္စည်းများ

Norwegian Retailers' Environment Fund

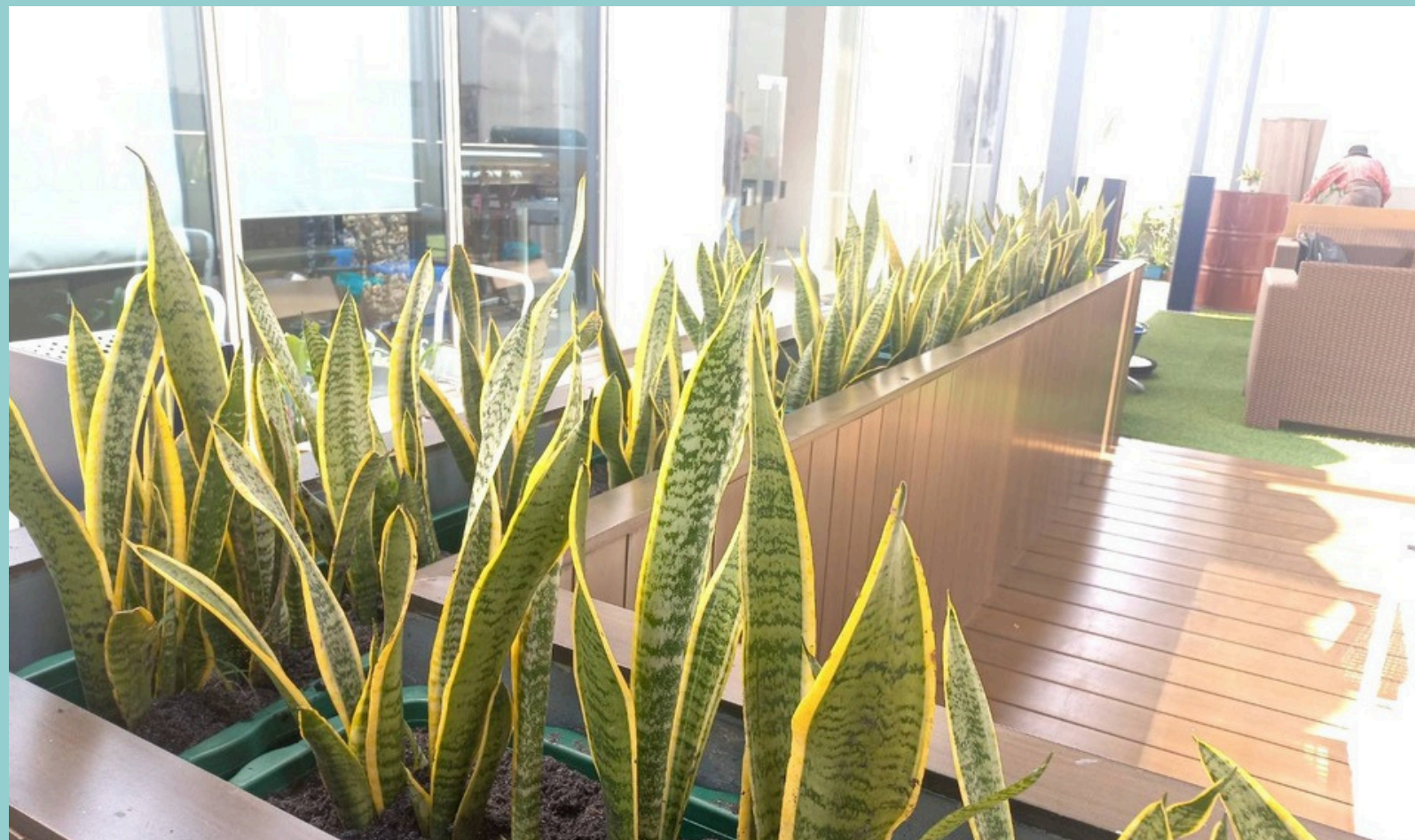
RECYGLO

Myanmar Plaza Hledon Centre



Campaign Bins & Reverse-Vending Machine

Neon Pathos x 6 Pots for outdoor area
SnakePlant,starjasmin - 150-180
Neon Pathos x 6 Pots for outdoor area



Star Jasmine

CONCLUSIONS



RecyGlo's Carbon Report underscores its commitment to environmental responsibility and community engagement. By implementing clothing and plastic waste reduction programs, RecyGlo has significantly decreased the carbon footprint of its community. Through initiatives like diverting textiles from landfills, promoting clothing reuse, and advocating responsible plastic disposal, RecyGlo has demonstrated its dedication to sustainability.

The introduction of the Thrift Fashion Truck and clothing repurposing initiatives has not only extended the lifespan of clothing but also fostered sustainable fashion practices, reducing reliance on new garments. Additionally, clothing donations have provided essential items to orphanages, schools, and those affected by crises, solidifying RecyGlo's role as a catalyst for positive change.

In terms of waste management, RecyGlo's services have led to notable reductions in greenhouse gas emissions, particularly through the collection and recycling of various waste materials. Despite a decrease in annual waste generation from 2022 to 2023, RecyGlo's efforts have resulted in significant CO₂ savings. By diverting recyclable waste from landfills and adhering to environmental standards, RecyGlo has contributed to reducing the effects of climate change and preventing land and marine pollution.

The Plastic Prevention Campaign has further demonstrated RecyGlo's commitment to combatting plastic pollution. Through innovative strategies and community engagement, the campaign has not only facilitated proper plastic waste disposal but also instilled environmental responsibility among participants. By actively involving individuals in environmental stewardship, RecyGlo continues to drive positive change and inspire a collective commitment to sustainability.

Overall, RecyGlo's initiatives have generated significant social and environmental impact, reducing carbon footprints, supporting communities, and fostering a culture of responsible waste management. As RecyGlo looks towards the future, it remains dedicated to promoting environmental sustainability and driving meaningful change in collaboration with its community.





MAKING THE WORLD A GREENER PLACE

CONTACT US



RecyGlo Company Pte. Ltd.

Singapore | Thailand | Vietnam |
Myanmar | Malaysia | South Korea

contact@recyglo.com | +66950813901

www.recyglo.com



RecyGlo Singapore



RecyGlo



recyglo_asean

