



# ***ANNUAL REPORT 2021***

*RecyGlo: Technology. Environment. Sustainable*



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2021

## ABOUT COMPANY

Recyglo is the first ever innovative recycling service solution in Myanmar. Started by 3 founders who are passionate about social impact and sustainability, our mission is to process recyclable materials in a safe and responsible manner.

## OUR STORY

"The idea [to start Recyglo came from my own house, where we had household waste in the form of cardboard papers and plastic water bottles. We used to dump them at our courtyard and the garbage collector - who resells the recyclable wastes - rarely comes to buy them. Therefore, the waste becomes a pile unless we get rid of it with Yangon City Development Committee's garbage trucks. These can have a certain value if they can be recycled but that value is ruined when we

inconsiderably litter waste. At that time, I wanted to connect the buyers and the sellers for the recyclable wastes and that is how everything began." - Shwe Yamin Oo, CEO



# VALUES

our values drive our success



## TEAMWORK

Synergy, working together across boundaries to meet the needs of our customers and to achieve our company's vision.



## HUMANITY

Having compassion and understanding for everyone irrespective of religion, caste, and nationality.



## INNOVATION

Employees are sources of new ideas, fueling better products, services, and processes. We encourage both technical and social innovation.



## PROFESSIONALISM

Doing what you say you will do, being an expert in your field, and being structured and organized, as well as owning up to mistakes.



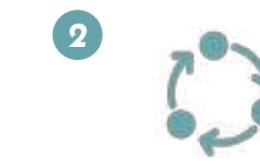
## OUR GOALS

striving for greatness



## SUSTAINABILITY

Synergy, working together across boundaries to meet the needs of our customers and to achieve our company's vision.



## CIRCULAR ECONOMY

Having compassion and understanding for everyone irrespective of religion, caste, and nationality.



## WASTE MANAGEMENT

Employees are sources of new ideas, fueling better products, services, and processes. We encourage both technical and social innovation.



## AGRICULTURE

Doing what you say you will do, being an expert in your field, and being structured and organized, as well as owning up to mistakes.



## MISSION

To process material in a safe, non-hazardous manner with an aim to keep the world environmentally clean.



## VISION

To become a leading waste management solution platform in Southeast Asia that produces zero waste and zero carbon footprint.



## PURPOSE

Introduce a waste management system in Southeast Asia to develop proper waste management and recycling culture.

# VISION FOR 2022

What's next?

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**At Recyglo, we understand the pressing need for expansion in the face of political tension between Ukraine and Russia, which has resulted in a recession in Russia. As Russia is a major supplier of fertilizer, this shortage has caused fertilizer prices in Southeast Asia to skyrocket up to five times their usual value.**

*Hence, our vision for 2022 is to establish ourselves as a prominent regional player in waste-related products and nutrient-based organic compost across Indonesia, Cambodia, and Vietnam. We believe that by extracting and utilizing various types of industry waste, such as eggshells, banana peels, and other forms of waste that are typically discarded, we can create high-quality compost that enriches the soil with essential nutrients.*

*Through our innovative processes, we aim to bridge the fertilizer shortage gap and provide sustainable solutions to farmers and agricultural industries. By offering nutrient-based organic compost derived from a diverse range of waste materials, we not only address the current fertilizer scarcity but also contribute to the reduction of waste and the promotion of a circular economy.*

*We aim to generate a monthly revenue of 1 million across all our branches in Southeast Asian countries. By achieving this financial milestone, we can ensure the sustainability and scalability of our operations, allowing us to continue making an impact.*



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# CEO MESSAGE

**2021 was a difficult year. As we reflect on the challenges faced, I want to express my sincere appreciation for your unwavering resilience. In the face of adversity, we made the conscious choice to survive and I commend each and every one of you for your determination and dedication. Your ability to weather the storm speaks volumes about the strength of our team.**

**The military coup and lingering effects of COVID-19 is a sobering reminder that in the pursuit of success, it is essential that we prioritize not only our professional endeavors but also our personal well-being and family life. Striking a balance between health, family and career is crucial, which is why we have consistently communicated the importance of making decisions based on these priorities in 2021. I understand that there have been instances where team members have come to the office despite feeling unwell. However, we have made it clear that if anyone is sick, their first responsibility is to stay at home.**

**To ensure the well-being of our team, we have provided comprehensive facilities, including health insurance, life insurance and even free vaccines when it came out in October. It is important to me that each and every one of you feels supported and valued within RecyGlo. We are in this together, and it is our collective responsibility to look after one another.**

**As we approach the fifth year since the founding of RecyGlo in 2017, we stand at a significant milestone. Research indicates that many startups fail within the first five years, making this year a pivotal one. However, by surpassing this crucial mark, our chances of long-term success increases significantly. Therefore, as we navigate the challenges of 2021, let us draw strength from the journey we have embarked upon and use it as a source of motivation.**

**I have immense faith in the capabilities of our team and I am confident that together, we will overcome any obstacles that come our way. Thank you for the trying year, 2021, we will emerge from it stronger!**

**- Shwe Yamin Oo**





# CFO MESSAGE

I would like to highlight the resilience and persistence our company has demonstrated throughout the year despite facing numerous challenges in 2021. The events that unfolded, including the coup on February 1st and the ongoing impact of the COVID-19 pandemic, had a significant impact on our operations.

During the coup, we faced significant difficulties as we were unable to sell our products or generate revenue. As a result, we faced financial constraints, leading to challenges in meeting financial obligations, including salary payments for our staff in Myanmar during the second and third months. Additionally, negotiations with rental providers were unsuccessful, making it challenging to reduce costs. In light of these circumstances, I made the decision to establish a new company in Thailand. This decision was driven by the need for one founder to leave the country for personal and security reasons. The decision was supported by our investor who advised that at least one of us should remain abroad.

Despite the challenges, there were positive developments during the year. We were honored to receive the Nestle prize, which recognized our company's achievements. We have also identified substantial potential in the Thai market and believe that with our efforts, we can become a market leader within the next two to three years. To explore this opportunity, we commissioned market research in Thailand, with the support of Water Energy for Food (WEF). We capped off this year by securing third place in the ASEAN Korea Start-up competition, which came with a prize of 5,000.

Hence, to sum up, I would say that despite the challenges we faced, we have shown resilience and persistence in navigating a difficult year. We have taken strategic steps to ensure our company's future growth and success. We remain committed to driving our company forward and delivering value to our stakeholders!

- Okka Phyo Maung



## BUSINESS DEVELOPMENT (SENIOR MANAGER) MESSAGE

Looking back, 2021 was undeniably a challenging year for Recyglo due to the lingering effects of COVID-19. Many startups faced closures and struggled to adapt to the new normal.

In response to the situation, we initiated a "Wash your hands" campaign, where we distributed posters and stickers throughout Yangon's shopping centers and public areas in order to promote hygiene practices. We also implemented a CSR program focused on disinfection as many people were losing their lives in the pandemic, and private entities were not stepping up to offer the necessary services.

Lastly, on the business side of things, we started to offer secure destruction services as they were in high demand by businesses seeking to dispose of goods damaged due to prolonged warehouse storage. Additionally, we incorporated secure and circular landfilling methods, such as lining the landfill with concrete and planting trees, to create a more environmentally friendly approach. We have also started exploring waste-to-energy solutions, providing an alternative solution for different types of waste while harnessing their potential energy.

2021 was a difficult year but we will continue to strive for a sustainable future!

- Hla Phong Ko



# ASSISTANT FINANCE MANAGER MESSAGE



**2021 posed immense challenges for Recyglo as we had to cope with both the ongoing COVID-19 pandemic and a military coup at once. This even caused us to stop our operations in Myanmar for five months.**

**Hence, 2021 was really all about unity and survival. We had to stick together, supporting one another in order to make it through those trying times.**

**- Hsu Myat Win Zaw**





## COMPANY STRUCTURE

At Recyglo, teamwork is key. We prioritize collaboration, crossing boundaries to meet customer needs and achieve our vision. Professionalism is essential, emphasizing integrity, expertise, and accountability. Innovation is encouraged, as our employees drive new ideas for better products and services. Lastly, we value humanity, treating everyone with compassion, irrespective of religion, caste, or nationality. These principles define our company structure and guide our success



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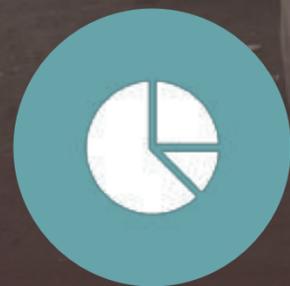
## FINANCIAL METRICS



**2 BLUE CHIP  
PROJECTS**



**\$10 000  
BROUGHT IN  
PER  
EMPLOYEE**



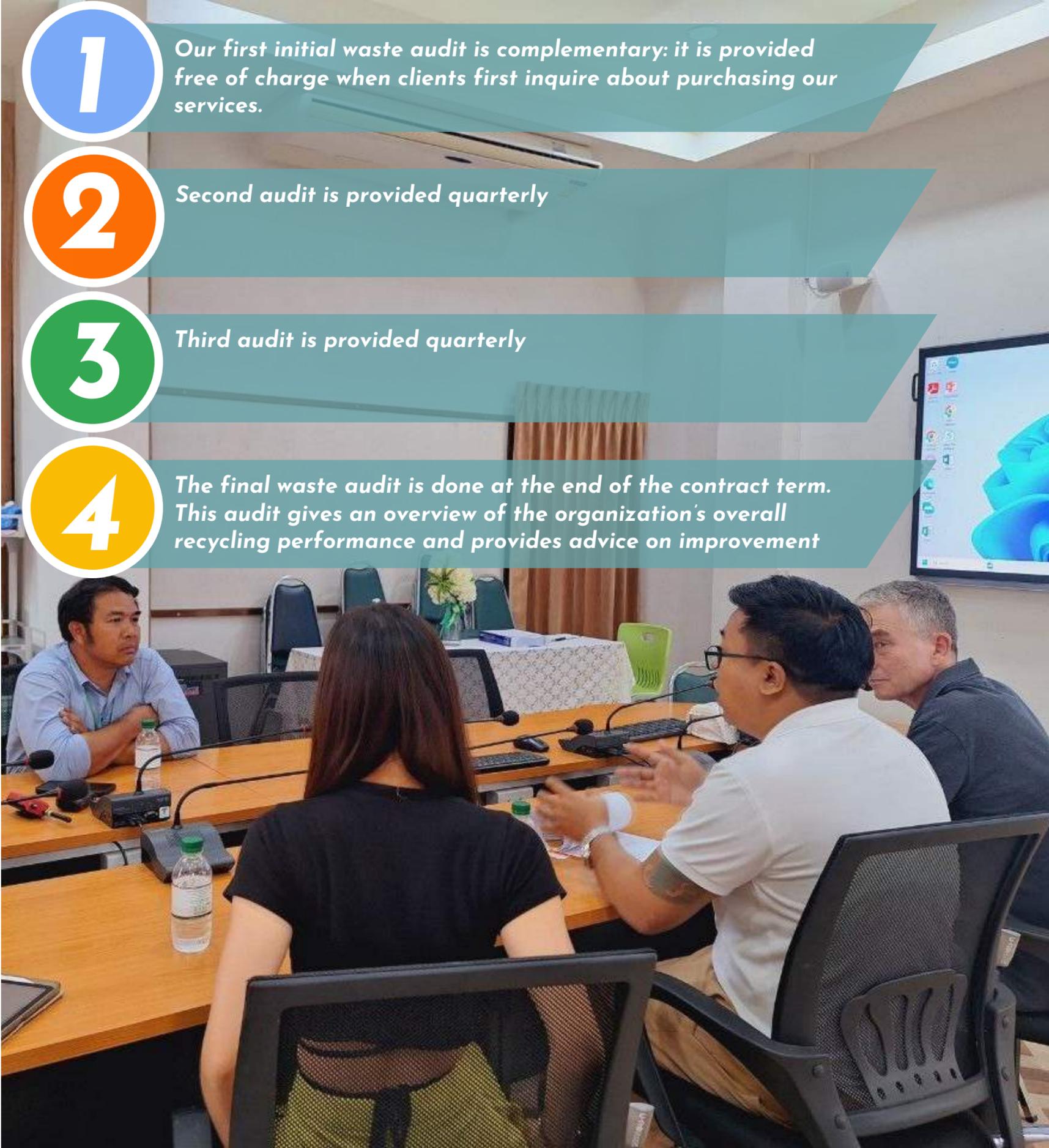
**88% GROWTH  
MARGIN**

*In 2021, our company demonstrated exceptional performance across various key metrics. With a revenue brought in per employee of \$10,000, we achieved impressive financial results while ensuring efficient resource utilization. Our profit margin stood at a remarkable 30%, highlighting our ability to generate substantial earnings from our operations. Additionally, we successfully handled two blue chip projects, representing our commitment to delivering high-quality solutions to prestigious clients.*

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**1** Our first initial waste audit is complementary: it is provided free of charge when clients first inquire about purchasing our services.

**2** Second audit is provided quarterly

**3** Third audit is provided quarterly

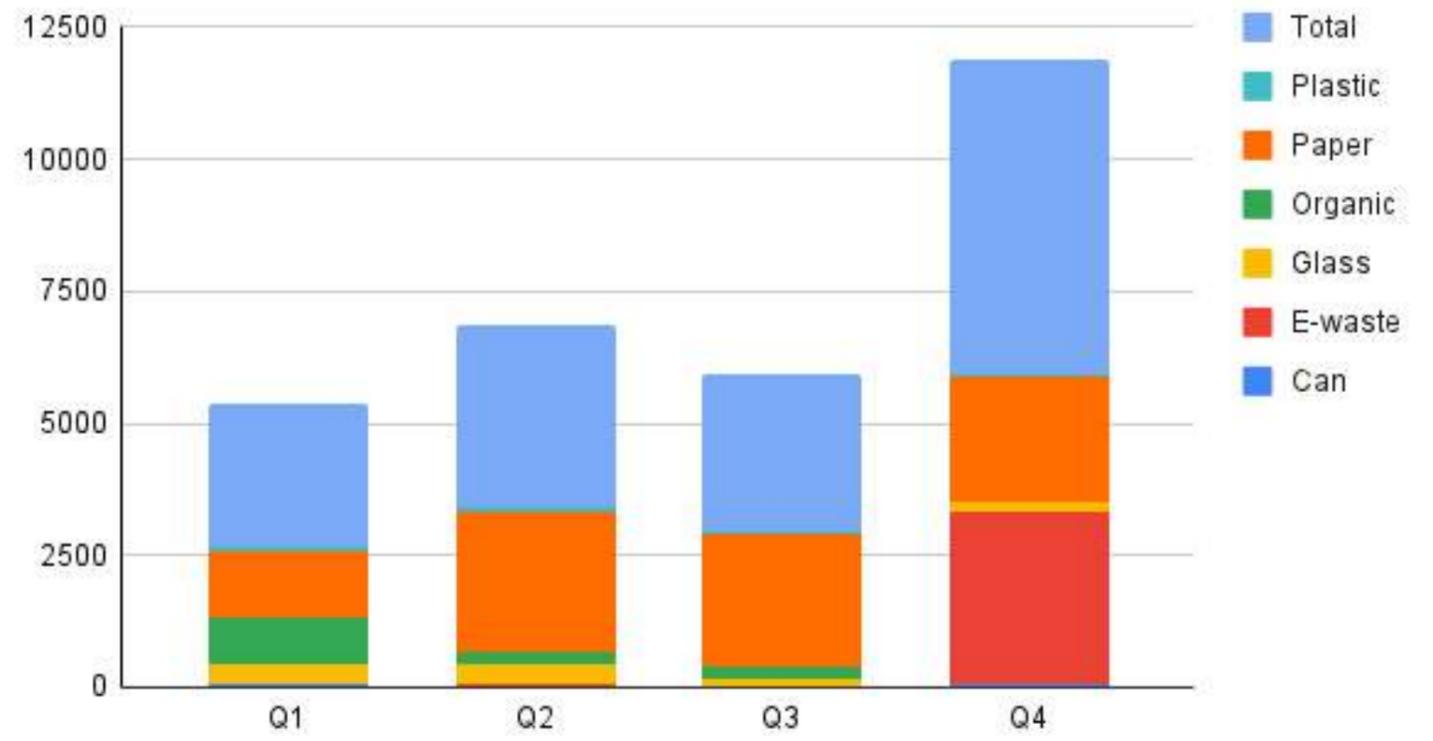
**4** The final waste audit is done at the end of the contract term. This audit gives an overview of the organization's overall recycling performance and provides advice on improvement

# WASTE AUDIT REPORT

Sustainability in facts and figures

Recyglyo offers four waste audits to each client in a contractual year. Our team examines waste streams, identifying key areas for improvement and recommending targeted strategies to minimize waste, optimize recycling efforts, and promote eco-friendly practices. The Waste Audit Report equips our clients with valuable insights and data-driven recommendations, empowering them to make informed decisions, reduce environmental impact, and foster a culture of sustainability within their organization.

## 2021 Waste Audit Data



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# LOOKING TO THE FUTURE

Learning from successful green technologies in 2021



## CASE STUDY 1: SMART WATER FILTER

Smart water filters such as the one produced by rOcean can be attached to your tap and filter out over 99% of microplastics, mercury, chlorine, VOC's and over 75 other contaminants that can be found.

Water scarcity is a pressing global issue. Water covers about 71% of the Earth's surface, but only about 2.5% of it is freshwater, with the majority locked in ice caps and glaciers. Hence, water filters play an essential role in conserving this precious resource. By filtering out harmful contaminants, water filters help preserve human health, prevent water wastage and plastic waste associated with single-use bottles.

The market size for such water filters is substantial in the South East Asian region which RecyGlo operates in. Water quality in SEA is under threat from various industries such as agriculture and manufacturing which releases untreated wastewater, pesticides and heavy metals into its water sources. For example, according to UNICEF It is currently estimated that in South Asia between 68 to 84 percent of water sources are contaminated. As a result, many countries have turned towards bottled drinking water. For example, in Thailand revenue in the Bottled Water segment is predicted to grow to US\$1.96bn in 2023.



As such, the proliferation of water filters in the future is sure to put a dent in these numbers.

RecyGlo is committed to explore new ways to make such water filters, affordable, accessible and sustainable. Together, we can make a significant impact on water quality, ensuring that clean and safe drinking water becomes a reality for all.



## CASE STUDY 2: GENETICALLY ENGINEERED MOSQUITOES

A US-owned, British-based company called Oxitec has developed OX5034, genetically modified male mosquitoes which are designed to pass along a gene that only kills females as only the females bite for blood.

While there have been efforts made to curb the mosquito endemic, these are often in the form of insecticides and bug zappers which harm the environment and lose effectiveness over time. As such, RecyGlo supports Oxitec's solution of "prevention is better than cure" by developing OX5034 and preventing the reproduction of female mosquitoes who bite for blood. This has limited ecological impact as it enables the reproduction of harmless male mosquitoes who carry out pollution. RecyGlo hence hopes to learn from Oxitec and look into conducting more Research and Development in the field of genetic engineering in order to develop innovative and sustainable solutions for mosquito control and beyond.

By building upon the success of genetically engineered mosquitoes, RecyGlo aims to explore the broader applications of genetic engineering to tackle various environmental challenges. Genetic modification has the potential to revolutionize pest control strategies by specifically targeting harmful species while minimizing harm to beneficial organisms and the overall ecosystem. RecyGlo intends to invest in extensive research and development to identify and engineer genetic traits that can be used to effectively manage other pest populations that pose threats to human health and environmental stability



mosquito-borne diseases kill around 725,000 people a year



Common types of mosquito-borne diseases include malaria, dengue, yellow fever and Zika



Female mosquitoes can lay a set of up to 100 eggs about every third night after mating only once

Mosquitoes are known for their itchy bites. However, beyond being just a nuisance, mosquitoes pose serious health risks by transmitting diseases such as Zika, Dengue, Yellow Fever and Malaria which kills up 750 000 people in a year. Female mosquitoes can lay up to 100 eggs about every third night after mating only once, resulting in a huge population of mosquitoes that can be found in most parts of the world. Vector-borne diseases are a serious problem in South East Asia where countries such as Indonesia, Malaysia and Thailand have the highest number of mosquito species.

# LOOKING TO THE FUTURE

## Learning from successful green technologies in 2021

Solar power is rapidly emerging as a key player in the global transition towards clean and sustainable energy sources. By harnessing the virtually unlimited power of the sun, solar energy offers numerous benefits such as

- 1 Generally, a standard 1 kW of solar panels can produce about 850 kWh of electricity per year.
- 2 It is a clean source of energy. Solar panels releases no greenhouse gas emissions when generating energy
- 3 Global solar power rose by 22% in 2020 as installations rose

Solar power is hence especially viable in the tropical South-East Asian region which RecyGlo operates in as it receives plenty of sunlight all year round. The abundant sunlight in this tropical region allows for the efficient harnessing of solar energy, ensuring a reliable and consistent power supply.



### CASE STUDY 3: SOLAR ENERGY

The SmartFlower consists of 12 'petals' which open up when the sun comes out.

However, the SmartFlower is a step up from regular solar panels as it includes a dual axis tracker so that it can follow the sun throughout the day and maximize its solar energy production. This translates into a 40% increase in production over a similar sized rooftop solar panel system.

In addition, the region's high population density and increasing energy demands make solar power an attractive and sustainable solution. For example, energy demand in Southeast Asia has increased on average by around 3% a year over the past two decades.

RecyGlo is thus excited and ready to explore the field of solar energy in the near future.

In Southeast Asia, approximately 190,000 annual deaths are caused by "non optimal temperatures".

The region is characterized by a hot and humid tropical climate with temperatures in some countries reaching as high as 40 degrees Celsius in the summer. However global warming has brought about heat waves of unprecedented intensity and duration, pushing temperatures even higher and creating a hazardous environment for the population. These extreme heat events, coupled with high levels of humidity, have led to a significant increase in heat-related illnesses and fatalities. The vulnerable groups, such as the elderly, children, and individuals with pre-existing health conditions, are particularly at risk. The strain on healthcare systems and infrastructure further exacerbates the situation, making it crucial to address the challenges posed by rising temperatures in Southeast Asia. Effective adaptation strategies such as cool pavements are thus essential to mitigate the adverse effects of non-optimal temperatures and ensure the well-being of the region's inhabitants.



### CASE STUDY 4: COOL PAVEMENTS

Cool pavements are a type of pavement that is designed to stay cooler than traditional pavements. Cool pavements, on the other hand, reflect more solar energy, allowing less heat to be absorbed. They can also enhance water evaporation, further reducing their temperature.

Pavement reflectance can be enhanced by using reflective aggregate, a reflective or clear binder, or a reflective surface coating.



Traditional paving materials absorb heat very quickly and hence its temperatures could potentially climb to 48 to 67°C during the summer months. This excess heat gets transferred to the atmosphere and heats up stormwater when it flows off the pavement and into nearby water bodies. Considering that a substantial amount of land area in urban regions are made up of pavements (approximately 30 to 45% based on a study of four diverse cities), it becomes crucial to factor them in when addressing the issue of heat islands. RecyGlo is thus excited and committed to exploring new ways to cool down the pavements of South East Asia.

# LOOKING TO THE FUTURE

Learning from successful green technologies in 2021



## SMART CONTRACTS

Smart contracts are self-executing agreements written in code that are stored and executed on a blockchain



## ZERO-KNOWLEDGE TECHNOLOGY

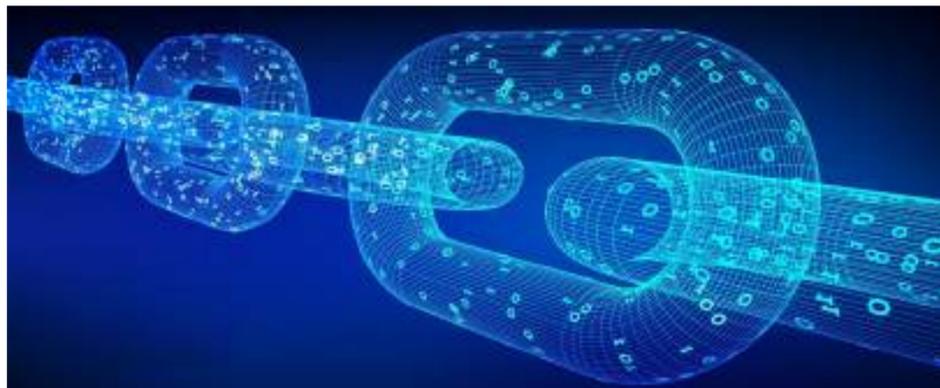
allows one party to prove to another that something is true without revealing any additional information beyond the validity of the statement itself.



## TOKENIZATION

the process of representing real-world assets as digital tokens on a blockchain so that it can be easily traded and transferred on a blockchain network.

Blockchain technology is revolutionizing various industries with its secure, transparent, and decentralized approach to managing information. Beyond its applications in finance and technology, blockchain is increasingly being recognized for its potential to promote sustainability and address environmental challenges



## CASE STUDY 5: BLOCKCHAIN FOR SUSTAINABILITY

Blockchain technology is a way to store and manage information that is secure, transparent, and decentralized. Imagine a digital ledger or a record book that keeps track of transactions or any kind of data. Instead of having just one person or organization in charge of this record book, it is distributed among many computers or "nodes" all over the world. Each time a new transaction or piece of data is added to the blockchain, it is bundled together with other transactions into a "block." These blocks are linked to each other in a chain-like structure, hence the name "blockchain." Once a block is added to the chain, it is very difficult to change or remove the information within it.

## USE OF BLOCKCHAIN TECHNOLOGY FOR SUSTAINABILITY

Blockchain technology through the use of smart contracts, enables the automated tracking of sustainability-related data such as carbon emissions. Companies can record this information on a blockchain, ensuring its accuracy and immutability. The data can then be reported to monitoring services and made public, promoting transparency and accountability. The cryptographic nature of the data ensures that it cannot be falsified or manipulated, enhancing trust and reliability. Additionally, Blockchain, with the help of zero-knowledge (ZK)

technology, allows companies to protect their privacy while reporting sustainability information. ZK technology enables the generation of proof that validates the accuracy of the reported data without revealing the specific details. Lastly, Blockchain facilitates the tokenization and digital distribution of environmental assets, such as carbon credits. Tokens representing specific amounts of reduced emissions can be created and traded on a blockchain platform. This incentivizes organizations to adopt sustainable practices by providing a means to quantify and trade their environmental impact.

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# PRODUCT AND SERVICE OFFERINGS

What's in store for you?



## WASTE MANAGEMENT & RECYCLING SERVICE

- Initial Waste audit
- Waste segregation and awareness training
- Setting up segregation bins
- Schedule Pick-up and waste collection
- Waste characteristics and analysis
- Transport to recycling plants
- Reports for waste data
- Online Dashboard

# 1



## WASTE AWARENESS & SEGREGATION TRAINING

- Types of wastes
- Wastes and their problems
- 5 Rs
- Recycling
- Waste segregation and benefits
- How to participate in the recycling process?
- Impact

# 2



## CONFIDENTIAL SHREDDING SERVICES

- Offsite confidential shredding services including recycling of the residual waste
- Solid waste auditing
- Physical stock count
- Inventory auditing services
- Carbon footprint auditing services

# 3



## WASTE AUDITING SERVICE

- Solid Waste Auditing
- Waste Audit Report

# 4



## WASTE MANAGEMENT & COLLECTION SERVICE

- Waste segregation training, auditing and traceability of waste collected
- Logistics and operations team well-trained to safely and efficiently provide our services and deliver an end-to-end solution in a timely scheduled manner

# 5



## BATTERY RECYCLING SERVICE

- One of the first professional pick up service in Myanmar that ensures batteries get safely delivered to recycling facilities in Europe
- Currently accepts 5 types of batteries in durable boxes that can hold 5kg worth of batteries
- Provides delivery of the battery box, recycling guidelines poster and a certificate of recycling

# 6



## SECURE DESTRUCTION & RECYCLING SERVICE

- For papers, plastic and e-waste
- Designed for customers who want to quickly and securely destroy their unwanted waste containing confidential/private information
- After destruction, a detailed framework of how waste gets destroyed will be provided for certification

# 7



## EPR policy advising

- Tailor-made support in advising companies about their whole supply chain to ensure compliance with the Extended Producer Responsibility (EPR) regulations and, as e-waste exports, offer our recycling management solutions
- Provides end-to-end service with reverse logistics, proof of secure destruction, as well as comprehensive training

# 8

## PRODUCT AND SERVICE OFFERINGS

What's in store for you?



### PLASTIC LUMBER PRODUCTION

- Uses post-consumer plastic to convert scrap plastics into usable products
- The recycled plastic commodities are sturdy, durable and readily available for use after the sorting, melting and molding process
- High-value building materials, desks and household furniture, are some items in our current product line-up
- Comprehensive customization available

# 9



### SLUDGE AND COMPOSTING SERVICE

- We offer a global composting service for sludge and organic waste to industrial clients and factories to avoid the current damaging practices for sludge and organic composting in Myanmar
- We have the capacity to transform this waste into organic fertilizer or soil conditioner

# 10



### CARBON FOOTPRINT

- We offer Carbon Impact calculations and a personalized plan to reduce their emissions
- When a significant impact reduction is not possible, we offer offsetting pollution activities
- As a circular economy agent, specializing in recycling, we can compensate our client's emissions through our actions and services

# 11



### IMPACT ASSESMENT

- Our full range of professional services includes, Environmental Impact Assessments, Social Impact Assessments, Health Impact Assessments, Environmental Management Plans
- We offer evaluations of projects and policies and make recommendations to improve their positive impact and mitigate negative effects

# 12



### REVERSE VEDNING MACHINE

- An innovative solution, allowing individuals to get money, rewards or vouchers back when they decide to recycle plastic bottles and aluminum cans
- RecyGlo offers these incentive machines to clients to streamline the collection of waste, reduce manual handling, and ensure efficient recycling methods

# 13



### ECO-CLEANING SERVICE

- Our new cleaning line discourages toxic cleaning products
- We use green, allergen-free and non-toxic products to disinfect and make your homes and offices spotless
- We attest to professional green cleaning standards by being environmentally responsible

# 14



### TRADING SERVICE

- A special, all-inclusive service for trading in various plastics, metal, paper, glass, electronic waste, etc which are highly sought after by local and international buyers
- Our existing platforms, RecyGlo, Oh My Trash, and Tradeglo, aggregate raw materials across the entire supply chain

# 15



### SANITARY LANDFILL DESIGN

- Unprogressive landfills produce greenhouse gas and leachate which causes pollution
- We offer solutions by designing sanitary landfill systems and circular economy infrastructure involving segregation, recycling infrastructure, waste to energy/organic waste etc

# 16

## PRODUCT AND SERVICE OFFERINGS

What's in store for you?



### USED COOKING OIL

- Cooking oil is widely used worldwide and can be a real threat to the environment, kitchen appliances and cities' sanitation pipes when not handled properly
- We offer to collect used cooking oil from clients, of all size, and transform it into valuable resources in our facilities

# 17



### ONLINE TRAINING PLATFORM

- A smart tool, easy to use from the learner and the trainer perspective, that ensures content delivery in an interactive and educative manner
- RecyGlo offers this service to clients willing to go one step further in integrating sustainability at the heart of their business with the possibility to add levels, rewards and certificates

# 18



### OH MY TRASH

- A dedicated platform for waste recycling, junk shops information, circular economy news and second-hand sales
- We aim to create a special place where we empower communities, raise the public's awareness and give trash or second-hand objects a new purpose

# 19



### ON DEMAND WASTE COLLECTION SERVICE

- Similar to our first initial waste collection services, except we now offer on call pick up services any time you would need for collection
- We provide waste segregation training, auditing and traceability of waste collected to our customers.

# 20



### ALL IN ONE WASTE MANAGEMENT PLATFORM APPLICATION

- Allows individuals to observe their carbon footprint with options to offset their carbon, and waste management companies to monitor their fleets
- Other features include on-demand waste collection services and online payment elements

# 21



### SMART-BINS

- A type of container with integrated camera and scale allowing you to monitor your consumption closely
- We can analyze data through AI and offer unique waste management solutions

# 22



## WHAT'S NEW IN 2021?

Our organic composts and plant nutrients are carefully formulated to supply plants with the essential nutrients for robust growth and development. Our composts are created using a combination of organic materials, including food waste, yard waste, and other natural substances, which have undergone decomposition to produce a nutrient-rich soil amendment. This compost is highly beneficial for enhancing soil health and structure, improving water retention capabilities, and fostering the growth of microorganisms that aid in nutrient absorption by plants.

In addition to our compost, we offer a diverse range of plant nutrients derived from natural sources like bone meal and fish emulsion. These nutrients play a crucial role in supporting plant growth by providing vital minerals and nutrients such as nitrogen, phosphorus, and potassium.

Our organic composts and plant nutrients are specifically tailored to meet the needs of home gardeners and farmers who prioritize a sustainable approach to nourishing their plants. Our products are user-friendly, yield remarkable results, and are guaranteed to facilitate thriving plant growth.

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2021

# THAILAND

## Waste management in 2021

Thailand initially seemed on track to achieving sustainable waste management in 2019 when the government approved the Roadmap on Plastic Waste Management for 2020 to 2030 as the policy framework for related agencies to work on in pursuit of the targets. One target would be increasing the proportions of plastic waste recycling in the country to 50% by 2022 and further to reach 100% by 2027.

However this goal has stagnated ever since due to the continuous rise in imported plastic waste as research has shown that during the first five months of 2021, over 58,000 tons of plastic waste were shipped to Thailand. Plastic waste imports has been a significant issue in Thailand since 2017 when China, the main importer of plastic waste at that time, passed laws to ban the import of 24 types of plastic waste into their country. As such, other countries started to divert their plastic trash to other countries such as Thailand.

In addition, according to the Pollution Control Department, about 2 million tons of plastic waste were generated every year in Thailand over the past decade, but only around 500 000 tons was properly retrieved and recycled. In addition, imported plastic waste is also hard to recycle as dirty plastic waste and other hazardous waste were found mingled in many plastic waste cargo. RecyGlo recognizes the constraints faced in sustainable waste management and strives to help Thailand reach its waste management goals by offering reliable, secure, and efficient recycling services.



# SINGAPORE

## Waste management in 2021

In 2021, waste management in Singapore faced significant challenges that rendered it unsustainable. Despite the city-state's efforts to establish an efficient waste management system, Singapore has extremely low recycling rates, and creates huge waste volumes for such a small city-state. This can be attributed to several factors

### MORE THAN 40% OF WASTE IN 2019 WAS INCINERATED

A huge portion of Singapore's trash is incinerated. For example of the 7.23 million tons of solid waste generated in 2019, more than 40% was incinerated. Singapore's incineration method is efficient in the short run as it reduces waste by up to 90%, saving landfill space, and producing steam which can be used to generate electricity. However in the long-run incineration is harmful to the environment as it leads to greater carbon emissions and air pollution.

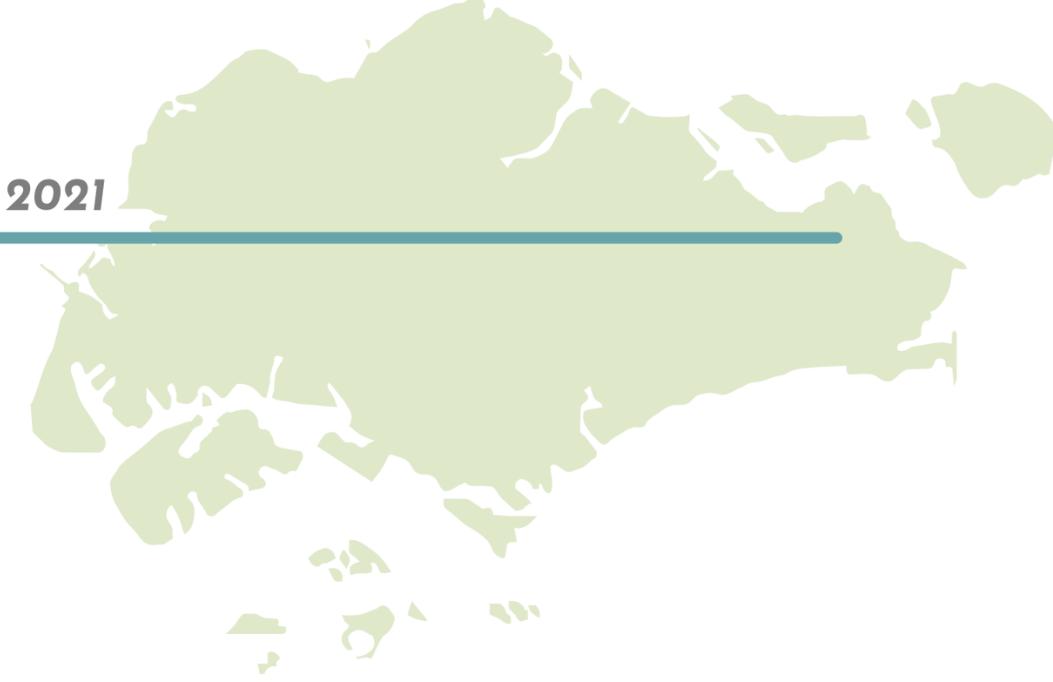
### SINGAPORE'S RECYCLING RATE DROPPED TO 17% in 2019

Singapore's domestic recycling rate dropped from an already low 22% in 2018 to 17% in 2019. Broken down, only 4% of plastic and 18% of food is recycled in the city-state. Most of Singapore's recycling is actually exported abroad for processing, including China, India and Malaysia. However, recent government decisions by countries like China or Indonesia to decrease their imported waste means that more of Singapore's recyclable trash ends up being incinerated.

### SINGAPORE'S ONLY LANDFILL IS RUNNING OUT OF SPACE

Singapore's one and only landfill, Semakau Landfill, is projected to run out of space by 2035 or even earlier. This is problematic as incinerated ash and non-incinerable waste are deposited to Semakau Landfill. There therefore needs to be more sustainable waste management.

In conclusion, Singapore still faces various hurdles to sustainable waste management in 2021. Despite Singapore's efforts to establish an efficient waste management system, the city-state's low recycling rates and unsustainable waste disposal methods have raised concerns about long-term sustainability. This requires a comprehensive and integrated approach that promotes recycling, reduces waste generation, and explores alternative solutions beyond incineration. There is thus, opportunity for RecyGlo to pave the way towards a more environmentally conscious waste management system in our Singapore branch.



# MYANMAR

## Waste management in 2021

Historically, Myanmar had an uncontrolled waste disposal system. Multiple dumping sites, each occupying about one hectare of land, are used for waste disposal. However, due to improper management practices, these dumpsites have become a significant issue for both environment and human health such as the attraction of pests, generation of unpleasant odors and leachate. Myanmar's waste management problem arises due to 3 main issues:

### 1 Waste Generation and Disposal

Myanmar is experiencing increasing consumption of resources, resulting in a rapid growth in waste volume. Additionally, a variety of emerging waste types require proper treatment, while finding suitable landfill space within city limits is difficult. The cost of waste management is also on the rise, further complicating the situation.

### 2 Policies and Enforcements

In Myanmar, waste management is hindered by the lack of policy administrations, weak enforcement of existing laws, and the absence of policies promoting the 3R approach. Insufficient strategic planning, the absence of new initiatives and taxation on cleaning and waste collection, and weak coordination among administrative layers exacerbate the challenges. Furthermore, the lack of regulations on carbon emissions and policies for carbon credits neglects the environmental impact.

### 3 Public Participation

The lack of public participation in Myanmar's waste management is influenced by multiple factors, including insufficient policies and awareness campaigns, limited understanding of health risks in the informal waste sector, inadequate stakeholder participation and coordination, restrictive policies, weak monitoring and enforcement, negative public perceptions, and limited research on new technologies.

Recyglyo recognizes the pressing challenges which Myanmar's waste management faces and is thus committed to finding effective and environmentally friendly ways to resolve the waste management challenges in Myanmar.



# MALAYSIA

## Waste management in 2021

Waste management in Malaysia is poor. As the country's population grows, the amount of waste generated grows as well. Most of this waste goes into landfills which are rapidly running out of space. There is thus a pressing need in Malaysia for more sustainable waste management which Recyglyo aims to address.



## KEY STATISTICS IN MALAYSIA WASTE MANAGEMENT



Every day, Malaysia discards over 30,000 tons of municipal solid waste (MSW), resulting in an average of 1.17 kilograms of waste generated per person per day



Local environmental experts predict that if no actions are taken to reduce waste, there will be no available space left to accommodate it by 2050



Compared to neighboring countries such as Singapore, Taiwan, Korea, and Thailand, Malaysia has a relatively lower recycling rate of about 31 percent

In Malaysia, the waste management problem stems from historical issues and inadequate legislation. Waste management laws finally came into place in the 1970s such as the Local Government Act 1976 and the Street, Drainage and Building Act 1974 were introduced to regulate public cleaning services and sanitary disposal. However, these laws were deemed insufficient and lacked resources. Municipalities also faced budget constraints, with waste collection budgets varying between 20% and 70% based on municipality size. Dumping waste in open fields and rivers still remains a common practice, with a study revealing that 31.9% of waste was disposed of through open burning and 6.5% dumped into the river system in Kuala Lumpur.

Malaysia is taking steps to address waste management challenges. With incineration proving inadequate, garbage disposal dumps have become the primary method for efficient waste disposal. To improve waste management, the government has upgraded 30 out of 175 existing waste disposal dumps to sanitary facilities. The country has also started following a solid waste management strategy based on the "waste hierarchy", prioritizing waste reduction, reuse and recycling.

# VIETNAM

## Waste management in 2021

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### CURRENT STATE OF WASTE MANAGEMENT IN VIETNAM

*The state of waste management in Vietnam is generally poor as around 13 million tons of waste being generated each year. This alarming trend demonstrates that waste production in Vietnam is on the rise, increasing at a rate of 10 to 16% annually. 85% of this garbage is mismanaged which causes the accumulated waste to gradually deteriorate the environment and contribute to pollution. However, Vietnam's poorly constructed landfills are unable to contain the growing pile of garbage, exacerbating the issue. Moreover, the existing waste treatment technology used in these areas falls short of meeting basic sanitary requirements.*

### CURRENT WASTE COLLECTION

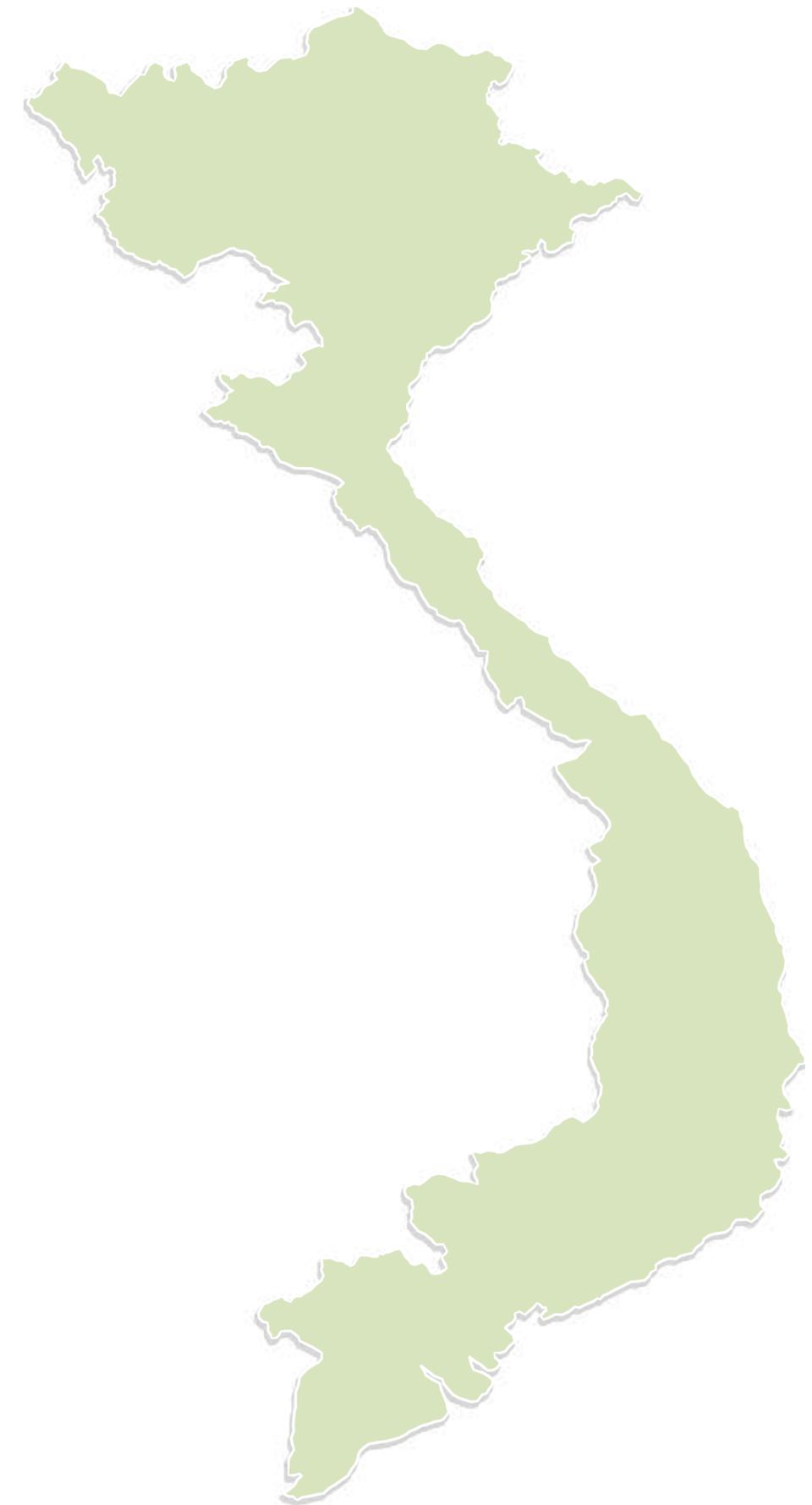
*Waste collection is generally done by Vietnam's lower class as it is a job that many see as undesirable due to the unpleasant conditions and low pay. As such, these waste collectors often face stigmatization from their communities while having to live with harmful side effects which stem from living and working in poor and unsanitary conditions.*

### THE ROLE OF THE INTERNATIONAL COMMUNITY

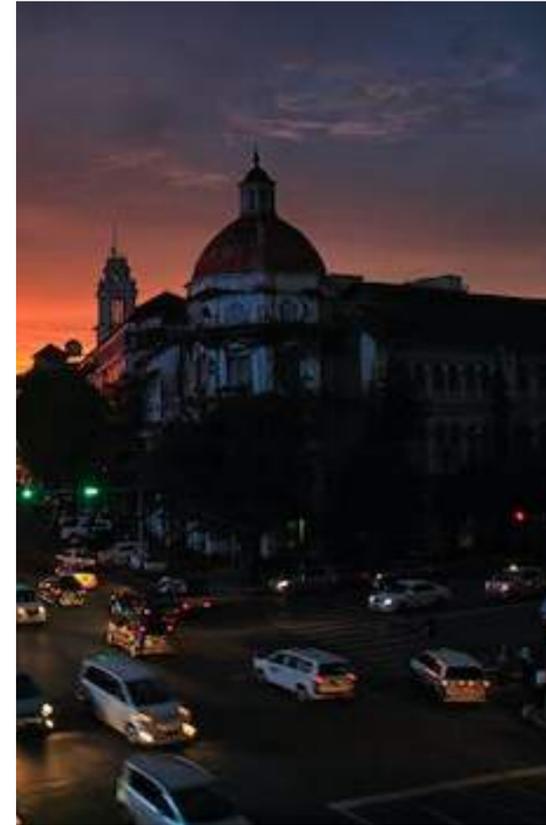
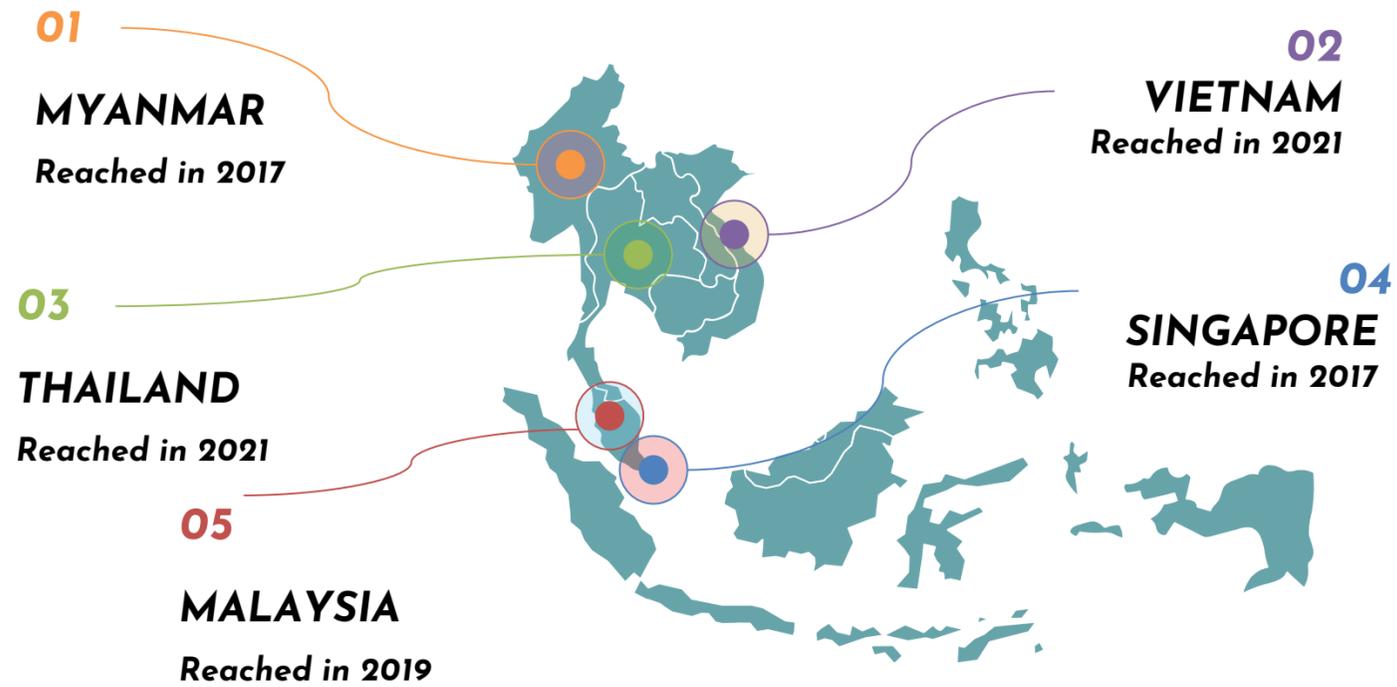
*The rise in imported waste in Vietnam started in 2018. Before that, states would send most of their waste to China and Hong Kong. However, in 2017, China implemented a plastic ban which forced countries such as the US to divert its waste exports to other less developed countries. The impact of China's plastic ban on Vietnam is monumental. Before the ban, Vietnam received nearly 49 000 tons of waste from the US between January and June 2017. Between January and June 2018, Vietnam imported more than 71 000 tons of garbage which represents around 50% increase from the previous year.*

### IS THERE A SOLUTION?

*Vietnam is currently tinkering with Incinerators as they significantly reduce the amount of landfilled waste and they can generate power. However, incineration while efficient emits various pollutant and waste must be sorted out before incinerated to avoid economic and environmental burdens. For example, if sorted out correctly only around 10% of waste needs to be burned. However, Vietnam currently lacks the capacity to adequately identify and sort out this waste. Recyglo as a pressing problem and aims to solve it in the future.*



# 2021 OFFICE LOCATIONS



## MYANMAR 2021

In Myanmar 2021, a new project was initiated, focusing on the production of organic waste fertilizer. The project primarily utilized organic waste sourced from wet markets and restaurants driven by the misuse of chemical fertilizers in agriculture and desire to raise awareness about the dangers associated with their usage. Chemical fertilizers yield desired results in a short time frame, leading to a lack of patience among farmers to adopt organic fertilizers, which do not provide immediate effects.

One of the side effects of chemical fertilizers is the presence of chemical residues, which have detrimental effects. Recognizing this opportunity, Recygly conducted extensive laboratory testing to develop the organic waste fertilizer. Samples were provided to farmers for usage on their farms or at affordable prices for purchase. Additionally, other consultants reviewed the product and conducted extensive research, confirming its richness in calcium, potassium, phosphate, nitrogen, and various other beneficial ingredients.

Previously, the project utilized bokashi bran, a microbe that aids in breaking down food waste. However, this approach was only feasible for small-scale operations due to its high cost. To accommodate large amounts of food waste for composting purposes, a switch was made to bokashi technology powder.



## SINGAPORE 2021

In 2021, our company focused on enhancing the skills and knowledge of our staff in Singapore through extensive training initiatives. Due to the COVID-19 pandemic, most of the training was conducted remotely via online platforms such as Zoom. We organized various training programs, including HR training, sales training, IT training, and communication training, to upskill our employees. One example of such a training program would be a program provided by the GSM Association which offered free mentorship, training, and psychological support. We participated in this program, enabling our staff to benefit from valuable resources and guidance.

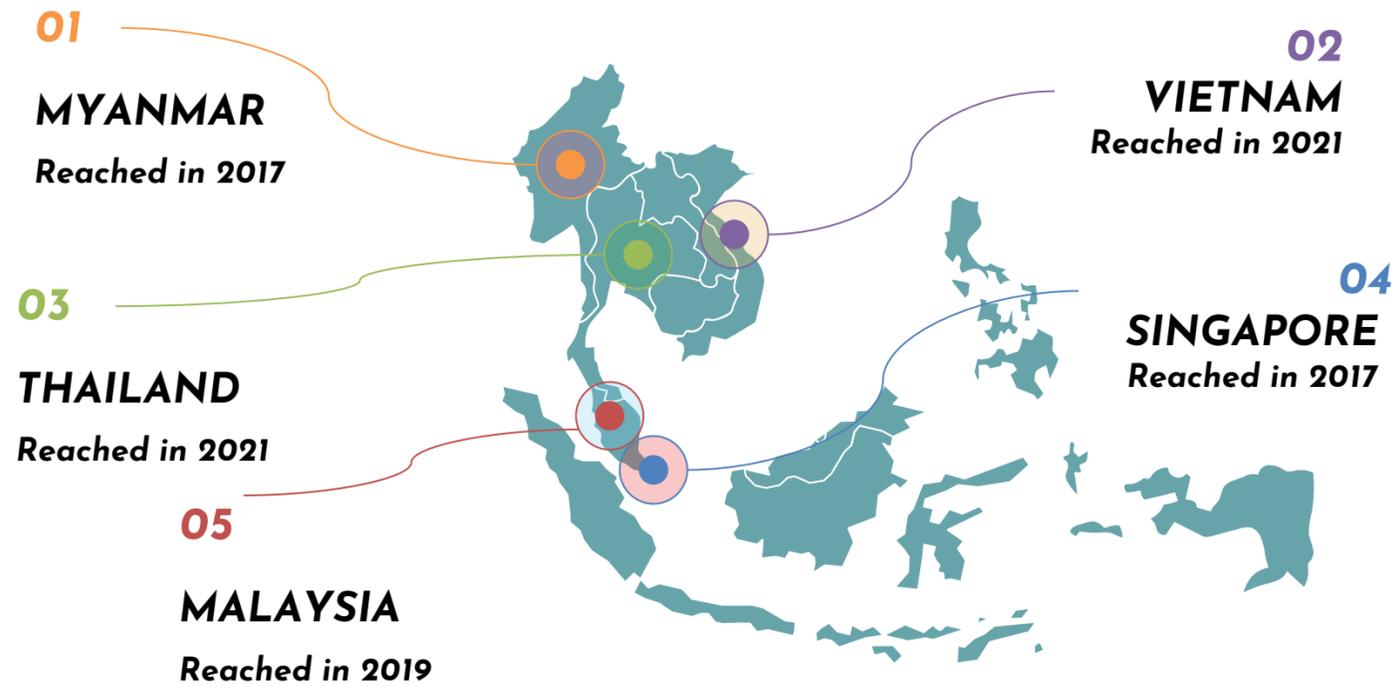
Additionally, we provided an exciting internship program for online interns from the National University of Singapore (NUS) to gain practical experience and contribute to our company.

One significant project we undertook was conducting a financial audit for the Norwegian Retailer Environmental Association. We also worked on implementing an Objectives and Key Results (OKR) measurement system, inspired by Google's methodology. Unlike traditional Key Performance Indicators (KPIs) that focus solely on numerical targets, OKRs also emphasize the quality of outcomes in measuring our company's progress and aligning goals.

We also prioritized the welfare of our employees in Singapore by regularly checking in with them to prevent any potential mental health issues. Despite the challenges posed by the pandemic, we ensured that no salary reductions were made, affirming our commitment to supporting our staff during uncertain times.



# 2021 OFFICE LOCATIONS



## MALAYSIA 2021

In 2021, Recyglyo participated in the Tech to Impact program, where we showcased our dedication to leveraging technology for positive social and environmental change. Additionally, we competed in the Online Unicorn Pitches Malaysia startup pitch contest, aiming to attract investment and gain recognition within the Malaysian startup ecosystem. Conducting physical research on printer cartridge recycling in Malaysia was a significant undertaking for us. It exemplified our commitment to environmental sustainability and finding innovative solutions for reducing electronic waste. This commitment was further exemplified as we attended the "Empowering Partnership for Sustainability" virtual forum. It served as a valuable opportunity for us to connect with like-minded organizations and individuals.

Additionally, Recyglyo was featured in the "Breaking Silo" interview which provided us with a platform to share our entrepreneurial journey, insights, and experiences. Our invitation as a judge for the Myanmar national final of the ASEAN Data Science Explorer 2021 was also an exciting opportunity as we shared our expertise in data science and contributed to regional cooperation and talent development. Lastly, Recyglyo attended the virtual EWC/WECA International Conference which allowed us to connect with professionals from various fields and exchange ideas, further expanding our network and knowledge base.



## THAILAND 2021

Recyglyo expanded our operations to Thailand to diversify risks and tap into the emerging markets of CLMVT (Cambodia, Laos, Myanmar, Vietnam, Thailand).

We won the ASEAN-Korea startup award and secured the W4F project, supporting our expansion in Thailand and Vietnam through organic and bio-fertilizer production from food waste. To cater to different market segments, we established dual bases in Bangkok and Chiangmai. Bangkok serves our B2B model, while Chiangmai focuses on Agritech solutions. We conducted extensive market research and feasibility studies to ensure informed decision-making. With a strong presence in Thailand and our sustainable solutions, we are well-positioned to capitalize on opportunities and contribute to the region's agricultural development.



## VIETNAM 2021

We expanded our presence in Vietnam by establishing an office in Ho Chi Minh City in June 2021. Although we encountered a less favorable market landscape at the time, we quickly adapted to the changing circumstances and relocated to Hanoi in 2022. As a result, our operations in Vietnam were focused on building relationships with local stakeholders, promoting sustainability and agriculture, and introducing innovative composting technology and biofertilizer products.



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**Public Awareness**

**Sponsorship**

**Competition**

**Training**

**Award**

**Campaign**

- 1) Released WHO guidelines to prevent the spread of COVID19
- Released guidelines on how to clean one's living environment to reduce the infection rate of COVID-19

- 1) Supported 5 individuals to participate in the East West Center Innovation Fellow internship
  - This program is aimed at fostering the next generation of environmental and social impact leaders in Southeast Asia

- 1) Started a coloring contest for litter sorting and education.
  - To participate in the contest, individuals need to purchase a specially made Recycled notebook, which features recycled paper and cartoons drawn by Sayar Veda Artist Baydar. The notebook includes three cartoons, and participants can choose their favorite picture to color.

- 1) Conducted an online training program called "Environmental and Sustainability Training"
  - The program focuses on the systematic separation of workplace
- 2) Conducted an online training program called "Environmental and Sustainability Training"
  - The program focuses on topics such as, the issue of waste and impact,, Individual sustainable action and 3Rs(Reduce, Reuse, Recycle)

- 1) Selected as a finalist in Best Green Tech Startup Category
  - a competition hosted by Global Startup Awards

- 1) Held a plastic prevention campaign
  - The campaign encourages individuals to participate by disposing of their used plastic bags, plastic bags for snacks, and disposable plastic water bottles in Recyglo's designated trash cans. In return for every 10 boxes of plastic collected, participants will receive a reward of 100 kyats.

# ACHIEVEMENTS

Celebrating milestones in 2021

**Nestlé CSV Prize  
2020-2021 finalist**

**ASEAN Startup  
Awards Myanmar  
National Finalist**

**Global Startup  
Awards Best Green  
Tech Startup Finalist**

**2021 ASEAN  
Korea Startup  
Week 3<sup>rd</sup> place**

2017

2018

2019

2020

- Shwe Yamin Oo, Okka Phyo Maung and Soe Moe Aung started Recyglo
- Recyglo won USD 25 000 pre-seed money from Phandeeяр Accelerator

- RecyGlo's Management Team received ISO 14001:2015 Environmental Management Auditor certification by ABS Quality Evaluation
- Recyglo acquired its first paying clients: Sampan and Pronity Travel
- Recyglo diversified its portfolio and recycles paper, plastic, metal, glass, e-waste and organic products

- Recyglo received USD 150 000 worth of investment from Katapult Ocean to support the green industry in Myanmar
- Recyglo won local Seedstars Competition as Yangon's Best Start Up
- Launched Oh My Trash App Beta Version

- Recyglo became certified by ISO 9001-2015 Quality Management Organization
- Recyglo became a member of United Nations Global Compact
- Recyglo received SGD 2, 500 post seed funding from Accelerating Asia
- Recyglo is named as one of the most influential project (13 out of 50) globally by Project Management Institute (PMI) through participating Uplink

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# MEDIA HIGHLIGHTS

Media features in 2021



“RecyGlo seeks a smarter future for Myanmar’s waste: Startup Stories” - **KrASIA, 2021**



“RecyGlo, Myanmar's first circular economy waste management system, targets regional growth” - **CCI FRANCE MYANMAR, 2021**



“Growing Myanmar's Circular Economy: An EWC Program with RecyGlo” - **EAST-WEST CENTER, 2021**



“Green dreams in SEA as HolonIQ debuts first-ever Climate Tech 50 list” - **TECHWIRE ASIA, 2021**



“14 innovative projects helping to save the planet and make the world a better place” - **WORLD ECONOMIC FORUM, 2021**



SDG #12: Recycling in Myanmar with Jaime Colom” - **SDG Talks, 2021**

# PARTNERS & CLIENTS

They trust us



**100+ partners and clients and growing**

- Notable clientele include companies such as PricewaterhouseCoopers, KBZ Bank, and Telenor
- Notable partners include the World Bank, the US Embassy and Cardno

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# IMPACT REPORT

## Meeting the Sustainable Development Goals

The Sustainable Development Goals (SDGs) are a vital global agenda, encompassing 17 objectives aimed at addressing social, economic, and environmental challenges. They provide a roadmap for achieving a sustainable future, promoting inclusive development, eradicating poverty, protecting the planet, and ensuring peace and prosperity for all.

5 GENDER EQUALITY



A female-to-male employee ratio of 3:4 in 2021



Equality and Diversity Management Policy and Human Rights policy



Committed to the UN Global Compact's 10 principles

Recyglo actively promotes human rights, labor standards, environmental sustainability, and anti-corruption practices. By fostering a supportive and inclusive work environment, Recyglo actively contributes to advancing gender equality and creating opportunities for all.

6 CLEAN WATER AND SANITATION



In 2021 Recyglo installed a state-of-the-art wastewater treatment plant in our plastic recycling factory. This treatment system, uses limestone and activated carbon to purify all the wastewater generated from our factory before being discharged outside the facility.

We also prioritize regular monitoring and testing to ensure that our treated wastewater meets the required quality standards. Through these efforts, we strive to contribute to clean water preservation and create a sustainable future for our planet

7 AFFORDABLE AND CLEAN ENERGY



Recyglo partnered with MECS (Modern Energy Cooking Services) to carry out the "E-Waste to E-Cook" initiative.

We recognized that rural households in Myanmar often face challenges in accessing electricity. Hence, through this collaboration, we aimed to provide affordable and reliable e-cooking systems to these underserved areas.

We started with a pilot project, collecting and repurposing relevant li-ion battery waste in Yangon. We then assembled and installed a prototype modular li-ion power pack in a household in Pannyo village, Natmauk township.

11 SUSTAINABLE CITIES AND COMMUNITIES



- 1 Community Investment Program Implementation: "Waste Management Awareness Campaign" with ENI Energy Company
- 2 Plastic Recycling Public Private Partnership with NREF
- 3 ADB 9177 - MYA Awareness Raising Program in Mandalay

Through these endeavors, Recyglo has successfully enhanced waste management practices, reduced plastic pollution, and fostered sustainable living in the communities involved. These efforts have contributed significantly to the overall goal of building sustainable cities and communities.

# IMPACT REPORT

Meeting the Sustainable Development Goals

## 13 CLIMATE ACTION



Recyglo is dedicated to making a positive impact on our planet by actively fulfilling three Sustainable Development Goals: climate action, life below water, and life on land. Through our waste collection services, we have implemented effective strategies to achieve these goals. Our comprehensive B2B and B2C waste collection services cater to both local and international companies, NGOs, and other organizations. We collect a wide range of waste types, including paper, plastic, cans, e-waste, glass, and organic waste. By offering these services, we encourage responsible waste management practices among our clients.

One of the key achievements of Recyglo is our significant contribution to climate action. By avoiding traditional waste management methods like incineration and landfilling, we have successfully reduced greenhouse gas emissions. Based on calculations using the IGES guidance, our efforts have resulted in a reduction of 4621.42 kg of CO2-equivalent per month. This reduction in emissions has a direct positive impact on mitigating climate change and supports SDG 13. In addition to climate action, we are actively working towards SDG 14 - life below water. Through our waste collection services, we prevent 1.4 tons of plastic waste, which is extremely hazardous to marine life, from entering our rivers and oceans. By doing so, we contribute to the preservation and protection of marine ecosystems, safeguarding biodiversity and promoting sustainable practices.

Furthermore, our commitment extends to SDG 15 - life on land. By collecting and recycling approximately 30 tons of solid waste in 2020 alone, we have significantly reduced the amount of waste sent to landfills. This reduction helps prevent land contamination, habitat destruction, and the release of harmful substances, thereby supporting the preservation of terrestrial ecosystems and biodiversity. At Recyglo, we are proud of our achievements in fulfilling these SDGs through our waste collection services. By promoting responsible waste management practices, reducing greenhouse gas emissions, preventing plastic pollution, and minimizing impacts on land ecosystems, we are actively working towards a sustainable future for generations to come.

## 14 LIFE BELOW WATER



## 15 LIFE ON LAND



### CLIMATE ACTION:

Reduction in greenhouse gas (GHG) emissions:  
**4621.42 kg** of CO2-equivalent per month



### LIFE ON LAND

Total solid waste collected and recycled in 2020:  
Approximately **30 tons**



### LIFE BELOW WATER

Amount of plastic waste prevented from entering rivers and oceans: **1.4 tons**



### IMPACT IN 2021

Number of companies, NGOs, and organizations that used Recyglo waste collection service in 2021: **180**



# **MAKING THE WORLD A CLEANER PLACE**

[WWW.RECYGLO.COM](http://WWW.RECYGLO.COM)