



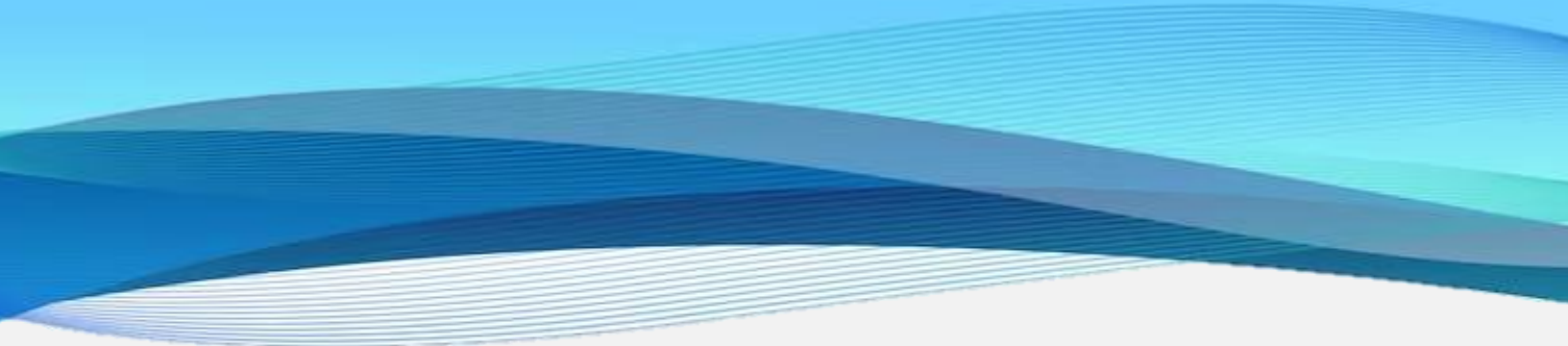
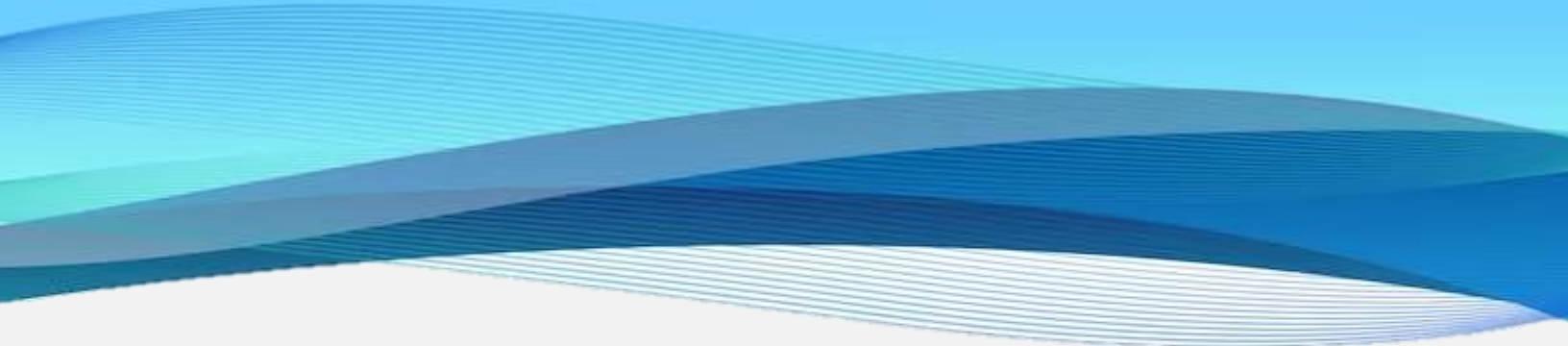


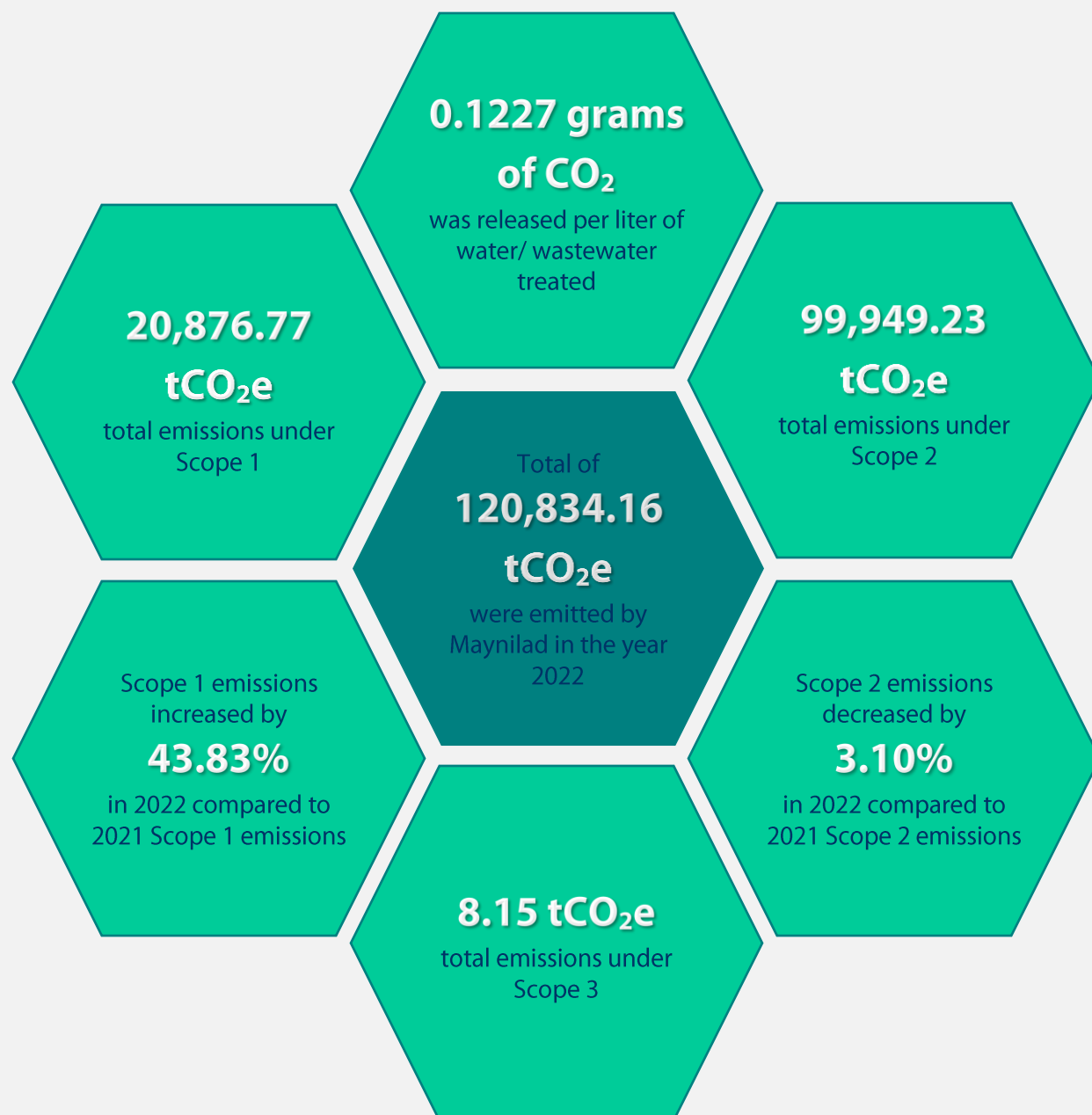
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EXECUTIVE SUMMARY



1 INTRODUCTION

Maynilad Water Services, Inc. (Maynilad) is the water and wastewater service provider for the West Zone of the Metropolitan Manila area which is comprised of seventeen (17) cities and municipalities. The West Zone includes the cities of Caloocan, Las Piñas, Malabon, Muntinlupa, Navotas, Pasay, Parañaque, Valenzuela, parts of Manila, Quezon City and Makati, the city of Cavite and the municipalities of Rosario, Imus, Noveleta, Bacoor, and Kawit in Cavite covering a total land area of 540 square kilometers.

In 1997, the Philippine Government granted Maynilad a 25-year exclusive concession to operate, maintain and invest in the water and sewerage systems in the West Zone. On September 10, 2009, the Metropolitan Waterworks and Sewerage System (MWSS) Board of Trustees approved the extension of the expiry of its Concession Agreement with Maynilad by an additional 15-years, or up to May 2037. A Revised Concession Agreement was executed on May 18, 2021 that confirmed the continuation of the concession until July 31, 2037. Republic Act No. 11600 (RA 11600) was signed into law last December 10, 2021 which grant Maynilad a 25-year franchise to establish, operate and maintain a waterworks system and sewerage and sanitation services in the West Zone service area.

Maynilad is managed by Maynilad Water Holdings Company, Inc. – a joint venture between Metro Pacific Investments Corporation (MPIC), DMCI Holdings, Inc. (DMCI) and Marubeni Corporation.

As it is Maynilad's mission to provide sustainable water solutions to those it serves, the company monitors and measures its impact on the environment. This document provides Maynilad's greenhouse gas (GHG) and air pollutant emissions inventory for the calendar year 2022. This is intended for all the stakeholders of Maynilad who are interested in its emissions inventory and the associated reporting structure, notation, and explanations. This document can be publicly viewed on the company's website.

Maynilad's reporting process and emissions classifications are consistent with international protocols and standards. This report has been prepared in accordance with ISO 14064-1:2018 Standard. The information provided follows the requirements outlined in Clause 9.3.1 and where applicable, Clause 9.3.2 of the standard.

1.1 RATIONALE

As the company gears toward the long-term goal of carbon-neutrality, it embarks on accounting its GHG and Air Pollutant Emissions with an objective of demonstrating its commitment and best practices in establishing an inventory of greenhouse gas and air pollutant emissions. This showcases the company's commitment in understanding better and ultimately improving its operational performance with respect to emissions.

This report endeavors to use primary data wherever possible but specially surrounding all major emission sources. Where primary data is not available, a consistent and conservative approach to calculation will be applied.

1.2 PROJECT TEAM

The "Maynilad Green Team" leads the preparation process of this report. This team was first organized through a memorandum from the President dated March 10, 2010. The Head of Quality, Sustainability and Resiliency (QSR) Division issued an update for this document.

The key contacts are:

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Other members of the Maynilad Green Team are listed below. They are representatives from the different operational units and departments of the company.

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- Merliza P. Masiglat
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Management**

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- Marvin M. Villanueva
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- Shirley L. Rubante
- Mark Harold C. Castillo

An Appreciation Course on Greenhouse Gas Management System based on ISO 14064:2018 and ISO 14064-3:2019 was given to the members of the Green Team. This will enable the members of the team to gain a better understanding on the principles and requirements of the standard. A GHG calculation tool was provided to the team members for a uniform output. Each of the team members were also oriented on how to use the calculation tool as well as on the data collection process that is in line with the requirements of the standard.

1.3 REPORTING STANDARDS, APPROACH, AND VERIFICATION

1.3.1 COMPLIANCE WITH ISO 14064:2018

The GHG Report covering the period of January to December 2022 has been prepared in accordance with the ISO 14064-1:2018. A reporting index has been provided in Appendix 1.

1.3.2 AUDIT OF GHG INVENTORY

Since 2009, the Maynilad GHG Inventory report have been externally verified and have met the requirements of ISO 14064-1:2018 standard. This 2022 GHG Inventory Report have been verified by TUV-Rheinland to contain fair and accurate representation of Maynilad's actual emissions and the emission estimates were calculated consistently and transparently.

2 ORGANIZATIONAL BOUNDARIES

Maynilad accounts for emissions of facilities over which it has full operational control as well as for shared facilities (i.e., office buildings, treatment plants, reservoirs, common purpose facilities, etc.). Emissions from contracted-out activities are included in cases where reliable data are available.

The initial list of facilities that are considered for the inventory can be found in Appendix 2. For purposes of operation and emissions accounting, these are categorized into the following groups:

Table 1. Categorization of Facilities

Category			Details
Central (CNRW)	Non-Revenue	Water	covers the CNRW offices in Quezon City and Manila, and the Integrated Meter Management Office and Meter Laboratory in Pasay City
Corporate			covers the Maynilad Head Office* in Quezon City which includes the following divisions: 1. Office of the President 2. Office of the Chief Operating Officer 3. Quality, Sustainability and Resiliency (QSR) 4. Information Technology Services (ITS) 5. Human Resources 6. Finance 7. Program Management 8. Supply Chain Management 9. Technical Services 10. Corporate Affairs and Communications 11. Legal and Regulatory Affairs 12. Enterprise Risk Management and Internal Audit 13. Integrated Asset Management In addition, Central Material Depot and Cordillera Material Depot in Quezon City and Arroceros Material Depot in Manila are also included. For the GHG/AP inventory, it also considers the Water Laboratory and Safety Center in Quezon City
Business Areas			covers the ten (10) business area offices of Maynilad. For the GHG and air pollutant accounting, satellite warehouses are included in the corresponding business areas
Water Network			covers thirty-eight (38) Pump Stations, Reservoirs, Mini Boosters, Deep Well Stations, In-line Boosters and other special equipment, Maintenance Shop (within La Mesa Compound), Water Network training facility and Water Network Office in Manila
Water Production			covers the four (4) water treatment plants: 1. La Mesa Treatment Plant 1 2. La Mesa Treatment Plant 2 3. Putatan Water Treatment Plant 1 4. Putatan Water Treatment Plant 2
Water Source Management*			covers the Common Purpose Facilities (CPF) Office, Ipo Office Building, and Bicti Desilting Basin
Wastewater Management			covers a total of one hundred eleven (111) Water Reclamation Facilities, Sewage and Septage Treatment Plants, and Lift Stations

* shares with other companies

3 REPORTING BOUNDARIES

3.1 EMISSIONS CATEGORIES AND CLASSIFICATIONS

Greenhouse gas emissions sources have been identified and grouped in accordance with the Greenhouse Gas Protocol's Scopes 1 through 3 and further categorized following the ISO 14064-1:2018 Standard.

Table 2. Emission Categories

Scope 1	Direct Sources
Category 1	Direct GHG emissions and removal
Scope 2	Indirect Sources
Category 2	Indirect GHG emissions from imported energy
Scope 3	Other Indirect Sources
Category 3	Indirect GHG emissions from transportation
Category 4	Indirect GHG emissions from products used by the organization
Category 5	Indirect GHG emissions associated with the use of products from organization
Category 6	Indirect GHG emissions from other sources

3.2 SIGNIFICANCE AND MATERIALITY

Factors for consideration in assessing significance and materiality include:

- size of the emissions
- Maynilad's influence on the emission source
- difficulty in obtaining data
- poor validity in available estimation approaches

While all the above would be considered in materiality assessments, the criteria that would mandate disclosure of emission sources as significant are:

- a. Where there is a single source with estimated emissions likely to be at least 1% of Maynilad's total emissions. In this case, that emission source must be included.
- b. Where the total of 'insignificant' sources has estimated emissions likely to be at least 5% of Maynilad's total emissions. In this case, 'insignificant' emissions must be included until the estimate of excluded emissions is below 5%.

Based on these criteria, the summary of emission sources inclusions is presented in Table 3.

Table 3. Emission Source Inclusions

Scope	Category	Emission Source	Data Source	Methodology & Materiality
1	1	Fuel used by Company-owned Vehicles	Fuel billing	Fuel use (liters)
1	1	Fuel used by Internal Combustion Engines	Monitoring Reports of facility	Fuel use (liters)
1	1	Fuel used by Company managers and executives through employee car plan	Fuel billing/ HR monitoring	Fuel use (liters)
1	1	Fugitive emissions from wastewater treatment	Monitoring Reports of facility	Volume (m ³)
1	1	Fugitive emissions from biosolids production	Monitoring Reports of facility	Volume (m ³)
1	1	Fugitive emissions from air conditioning units	Maintenance Report of service provider	Charge in Capacity (kgs)
1	1	Fugitive emissions from fire extinguishers	Purchase Request data from Procurement	Charge in Capacity (kgs)
2	2	Purchased Electricity from Grid	Electricity billing	kWh
3	3	Business Travel by Air	Airline Ticket (Distance traveled)	Emissions/ km

Using the same criteria, the following are emission sources that have been identified but excluded from the emissions inventory. These sources are not considered significant or material to stakeholders, the context of inventory, and/ or are not feasible or practical to calculate at the current point of time.

Table 4. Emission Source Exclusions

Scope	Category	Emission Source	Data Source	Methodology & Materiality
3	4	Solid Wastes	Self-Monitoring Report (SMR)	Tons of general waste, yet to establish baseline data, estimated to be <1% at 441 Tonnes CO ₂ e
3	4	Emissions from use of consumables	Supply Chain Management	Difficult to obtain, estimated to be <1%
3	6	Accommodation	Human Resources Division	Night stayed, estimated to be <1%

4 QUANTIFIED GHG INVENTORY OF EMISSIONS

4.1 CONSOLIDATED STATEMENT OF GHG EMISSIONS

Table 5 presents the total of GHG emissions for 2021.

Table 5. Total GHG Emissions for 2022

EMISSIONS		Notes	CO ₂ e TOTAL	Carbon Dioxide (CO ₂)	Methane (CH ₄)	Nitrous Oxide (N ₂ O)	Fluorinated Gases
		1	GWP	1	27.9	273	
S1	Category 1: Direct GHG emissions and removals in tonnes CO ₂ e	2	20,876.77	16,196.84	3,518.46	1,161.48	
	Direct emissions from stationary combustion		2,443.8	2,443.79	0.0029	0.0057	
	Direct emissions from mobile combustion		2,967.64	2,896.38	3.79	67.46	
	Direct process and removals from industrial processes	NS					
	Direct fugitive emissions from the release of GHGs in anthropogenic systems		4,932.23	344.38	3,514.66	1,094.01	
	Direct fugitive emissions from refrigerants		10,512.29	10,512.29	0	0	
	Direct emissions and removals from land use and forest change	NS					
	Direct emissions in tonnes from biomass	3					
	Indirect emissions in tonnes CO ₂ e	4	99,957.38	99,613.83	34.00	309.55	
S2	Category 2: Indirect GHG emissions from imported energy		99,949.23	99,605.68	34.00	309.55	
	Indirect emissions from imported electricity		99,949.23	99,605.68	34.00	309.55	
	Indirect emissions from imported energy	NS					
S3	Category 3: Indirect GHG Emissions from Transportation		8.15	8.15	0	0	
	Emissions from upstream transportation and distribution of goods	NS					
	Emissions from downstream transportation and distribution of goods	NS					
	Emissions from employee commuting	NS					
	Emissions from client and visitor transport	NS					
	Emissions from business travels		8.15	8.15	0	0	
S3	Category 4: Indirect GHG emissions associated with the use of products by the organization						
	Emissions from purchased goods and services	NS					
	Emissions from capital goods	NS					
	Emissions from the disposal of solid and liquid waste	NS					
	Emissions from the use of assets	NS					
	Emissions from other services not described above						

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S3	Category 5: Indirect GHG emissions associated with the use of products from the organization				
	Emissions or removals from the usage of product	NS			
	Emissions from downstream leased assets	NS			
	Emissions from end-of-life stage of the product	NS			
	Emissions from investments	NS			
S3	Category 6: Other indirect GHG emissions sources				
	Emissions from accommodation	NS			
	TOTAL EMISSIONS CATEGORIES 1-6		120,834.16	115,810.67	3,552.46 1,471.03
	REMOVALS	5	18,514		
	Direct removals in tonnes CO₂e (Mangrove)		9,305		
	Direct removals in tonnes CO₂e (Ipo Tree Planting)		9,209		
	STORAGE	6			
	Total storage as of year-end in tonnes CO₂e				
[*] Significant [NS] Non-significant [S#] Scope					

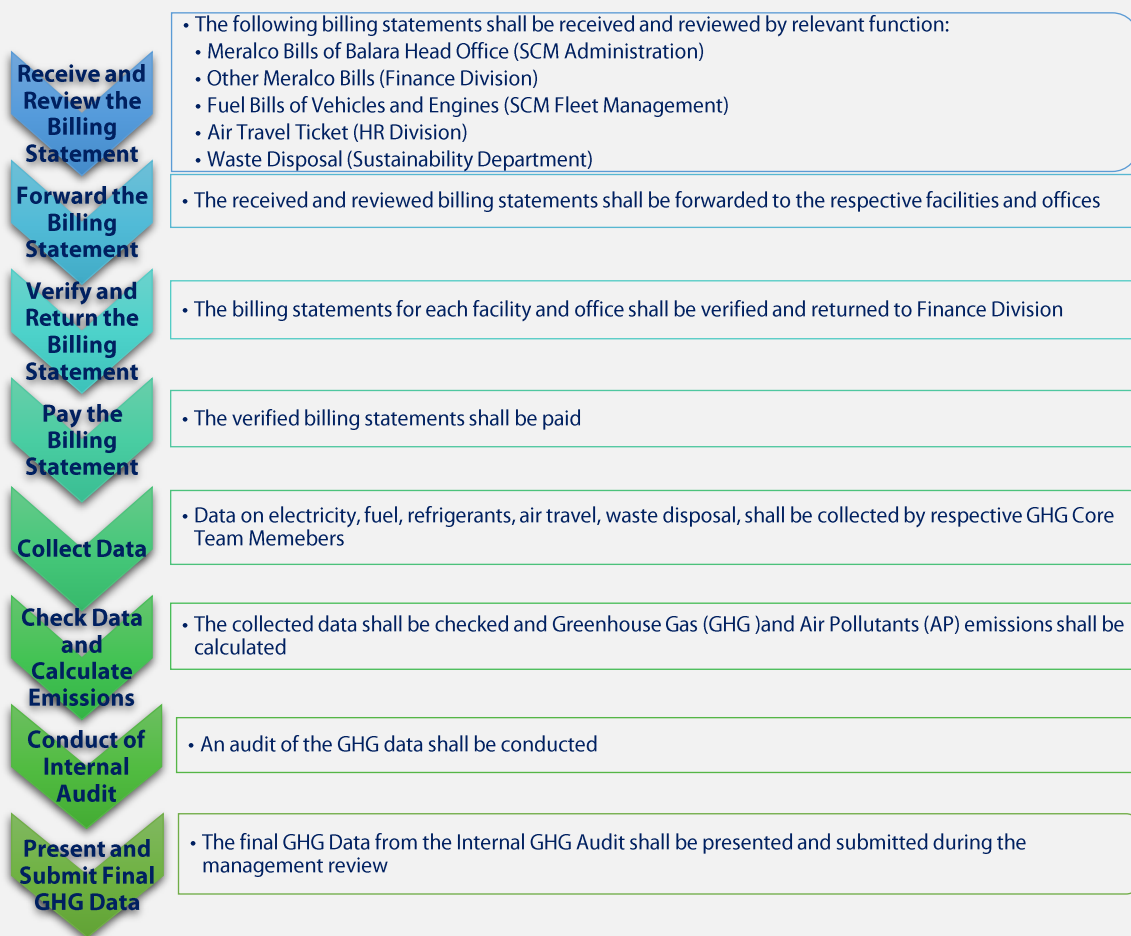
Notes to Consolidated Statement of GHG Emissions:

1. Direct and indirect emissions have been prepared in accordance with the recommendations of Annex B. Gas types CO₂, CH₄ and N₂O have been included as those relevant to direct emissions.
2. Fluorinated gases have a very high Global Warming Potential (GWP). Although we have none to disclose over this period, we do hold significant amounts as refrigerants, gathering of baseline data is ongoing for possible inclusion in the next reporting period.
3. Biomass emissions relate to the use of biofuels, while not significant in scale they are a key area of interest and as such are included here. As per the ISO 14064-1: 2018 Standard the CO₂ emissions are recorded against biomass whereas the other gases (CH₄, N₂O etc. are grouped within Category 1).
4. This includes the emissions of purchased electricity from grid.
5. This includes the carbon sequestered of Maynilad's Mangrove Rehabilitation Sites in Cavite Province (2013-2019) and tree planting at IPO watershed in Norzagaray, Bulacan (2012-2017).

Storage is not addressed in this document as we have none to disclose.

4.2 METHODOLOGIES FOR THE COLLECTION AND QUANTIFICATION OF DATA

The GHG measurement and reporting process has been developed to ensure conformance to the principles of the ISO 14064-1:2018 Standard and to be consistent with the intended use of the GHG inventory. Below is the Information Management Procedure for data collection.



4.2.1 APPROACH TO EMISSION FACTORS

The GHG and air pollutant emissions of Maynilad are estimated using the emission factor approach. Published emission factors from globally accepted emissions quantification tools and guidance materials are used while actual activity data (e.g., electricity consumption, fuel consumption, etc.) are used whenever possible. The basic formula used in the emission factor approach is:

$$A \times EF \times (1-ER/100) = E$$

Wherein:

A	= activity data
EF	= emission factor
ER	= emission reduction efficiency
E	= emissions

The calculation methodologies and emission factors are derived from various notable sources such as Greenhouse Gas Protocol, World Business Council for Sustainable Development, World Resources Institutes, Anthesis, Clean Air Initiative for Asian Cities, Intergovernmental Panel for Climate Change (IPCC), U.S. Environmental Protection Agency (EPA), UK Department for Environment, Food and Rural Affairs (DEFRA), United Nations Environment Programme (UNEP), and Department of Energy (DOE). The GHG calculations in the developed tools are consistent with those of the tools of the GHG protocol. Moreover, these tools were developed to calculate GHGs as well as criteria air pollutants, which are currently not covered by the GHG Protocol.

4.2.2 CHANGES IN METHODOLOGIES ON PRIOR YEAR/ BASE YEAR

The base year is the year that will be used in assessing the direction of the emissions of Maynilad in the future. The year 2009 was selected as the base year to account for the transition and re-organization, which took place in 2008. The following represent changes in methodology with respect to the base year and our commitment to improve the accuracy and breadth of reporting year on year:

- Emission factor updates
- Calculation tool
- Improvements identified from our review, across data sourcing, quality, completeness and consistency

4.2.3 GLOBAL WARMING POTENTIAL (GWP) CALCULATION AND SOURCE

Quantities of GHG emissions are expressed as tonnes of CO₂e (Carbon Dioxide Equivalents) using the global warming potentials (GWP). The time horizon is 100 years. Direct emissions sources (Category 1) are expressed as both CO₂e and their detailed GHG breakdown, including the GWP value. The most notable GHGs include:

Table 6. GHG and their GWP

GHG	Chemical Formula	GWP
Carbon dioxide	CO ₂	1.0
Methane	CH ₄	27.9
Nitrous Oxide	N ₂ O	273.0

Source: IPCC Sixth Assessment Report (AR6) published in 2021

4.2.4 REVIEW, INITIAL AUDIT, AND IMPROVEMENT

Review, internal audit and improvement of primary data have been sought for all significant emissions sources. Where data is unavailable or not comparable, conservative estimation methods have been applied such that incentives lie in continually improving the ratio of primary data to estimation approaches. Preparation of the inventory is done iteratively with several internal draft, check and resubmission stages in the lead up to verification.

Following 2018-2022 reporting years, a post audit review was done. Some improvements identified and to be possibly enacted for the 2023 reporting are the following:

- Extended timeline for compiling data
- Better data quality and completeness
- More comprehensive and better organized source data
- Transition to better units of measure
- Addition of GHG emissions from Accommodation (hotel stay)
- Addition of GHG emissions from Waste dispose to landfill
- Addition of GHG removal sources

4.3 ASSESSMENT OF UNCERTAINTY

For this report, a qualitative rather than quantitative assessment of uncertainty has been applied. With the current tools and variety of emission sources, our view is that a quantitative assessment would be complex, time consuming, and offer little validity in respect to statistical uncertainty. For example, many direct and indirect factors related with global warming potentials (GWP) values that are used to combine emission estimates for various GHG involve significant scientific uncertainty. Analyzing and quantifying such uncertainty is likely to be beyond the capacity of most company inventory programs. Moreover, it is also believed that all emissions or removal quantification are associated with estimation uncertainty. The applicability of these quantitative assessments will be reviewed in each reporting period.

4.4 CHANGES TO BASE YEAR

There is no change to the base year calculation in this reporting period. Recalculation of the base year will only be applied where it is necessary to maintain an effective base year comparison. Reasons for this might include:

- If the emission factors used change significantly and are relevant to prior years
- If a significant estimation method has been changed/improved
- If a significant data sourcing strategy has been changed/improved
- If the scope of the inventory is changed

Recalculation of the base year will also consider whether the historical data has the required details to perform recalculation or whether it is in the right form (i.e., unit of measure) to apply a different emission factor.

4.5 REMOVALS AND REDUCTIONS/ INCREASES

4.5.1 REMOVALS

A Survival Rate and Carbon Stock Assessment of Maynilad's Mangrove Rehabilitation Sites in Cavite (2013-2019) was conducted. The four (4) mangrove rehabilitation sites of Maynilad in Cavite Province

are located at Kawit, Noveleta, Bacoar and Cavite City. The study reported a total carbon stock of 2,535 tonnes, resulting to a total GHG removal of 9,305 tonnes CO₂e from 36.6 hectares of mangrove plantation.

In addition, another study was conducted (2012-2017) for the Survival Rate and Carbon Stock Assessment for the tree species planted in the IPO Watershed located in Norzagaray Bulacan. The study reported a total carbon stock of 2,509 tonnes, resulting to a total GHG removal of 9,209 tonnes CO₂e covering an area of 272 hectares of plantation.

4.5.2 EMISSION REDUCTIONS/ INCREASES

As we continue to monitor our greenhouse gases emissions, we have recorded an increase in carbon dioxide equivalents across our operations in gross greenhouse gas emissions. This year, the direct GHG emissions increased by 43.83% arising from the increase of emission from refrigerants. There was a 3.10% decrease in scope 2 emissions that can be attributed in the mixing of solar energy as a power source of some facilities. Overall, there is a 2.69% increase in the total carbon dioxide equivalents in 2022 compared from 2021.

As the countrywide lockdowns are lifted, we are also easing back to the pre-pandemic work set-ups. Thus, business travel by air (Scope 3) was now recorded for the year of 2022, which subsequently resulted in an increase of 100% from 2021 wherein there was no business travel by air recorded. Despite of this, we still strive to continuously reduce the emission intensity of our operations.

Scope 1



Scope 2



94,735.07 tCO₂e

2020 Scope 2 emissions

103,151.02 tCO₂e

2021 Scope 2 emissions

99,949.23 tCO₂e

2022 Scope 2 emissions

Scope 3



5.82 tCO₂e

2020 Scope 3 emissions

8.15 tCO₂e

2022 Scope 3 emissions

4.5.3 OTHER INITIATIVES

4.5.3.1 PLANT FOR LIFE PROGRAM

Maynilad's Plant for Life Campaign, which started since 2007, is dedicated to the adoption of planting areas within identified watersheds. The program involves planting saplings and seedlings as well as mangrove propagules with the hope of rehabilitating the watersheds and their surrounding natural spaces.

Ensuring environmental conservation, the Plant for Life campaign was conceptualized to adopt, establish, monitor, maintain, and protect the watersheds within Maynilad's concession area. The campaign covers the four critical watersheds for freshwater supply, namely the La Mesa, Angat, Ipo, and Manila Bay watersheds.

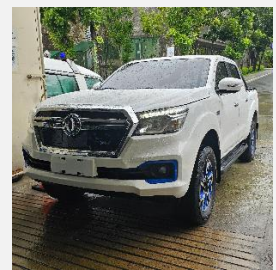
As part of the Plant for Life activities last year (2022), Maynilad launched the "Adopt-A-Tree" program which aims to speed-up the reforestation activities of the watersheds covered by the program to ensure the quality of the raw water source of the company as well as to continuously engaged the employees in protecting the watersheds. A total of 1,429 employees participated in the program which is then equivalent to 8,142 Narra trees adopted and planted in Ipo Watershed covering 20.36 hectares.



The year 2022 has also been a milestone for the program as it is the year the one millionth tree sapling was planted under the program. Since its inception in 2007, the program was able to facilitate planting a total of 1,000,071 saplings and propagules. This brings the company closer towards its goal to become carbon neutral by 2037.

4.5.3.2 GREEN MOBILITY PROGRAM

As part of Maynilad's goal to become a carbon neutral company, a program to replace at least 50% of the fleet vehicle from fuel-driven to electric was implemented. An initial of three (3) units of e-vehicles were purchased. These units are one (1) E-Sedan, one (1) E-SUV and one (1) E-Pickup. Charging stations of the pilot units were installed at the Head Office of the company. These units are expected to help lessen the carbon emissions of the company in its daily operations.

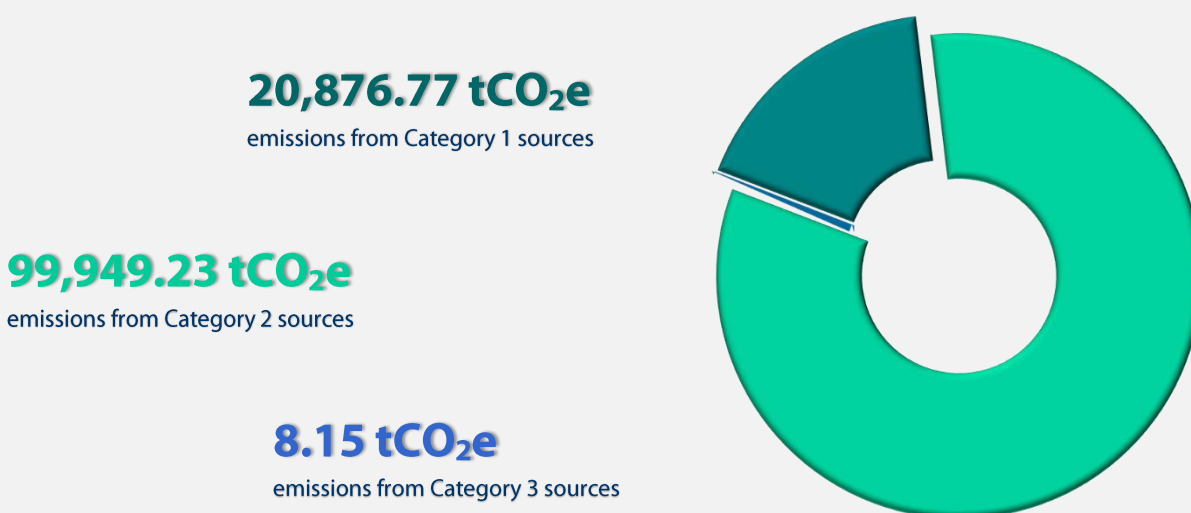


*** In photos from left to right: BYD Dolphin (E-Sedan), Weltmeister W5 (E-SUV), Dongfeng RICH 6 EV (E-Pickup)*

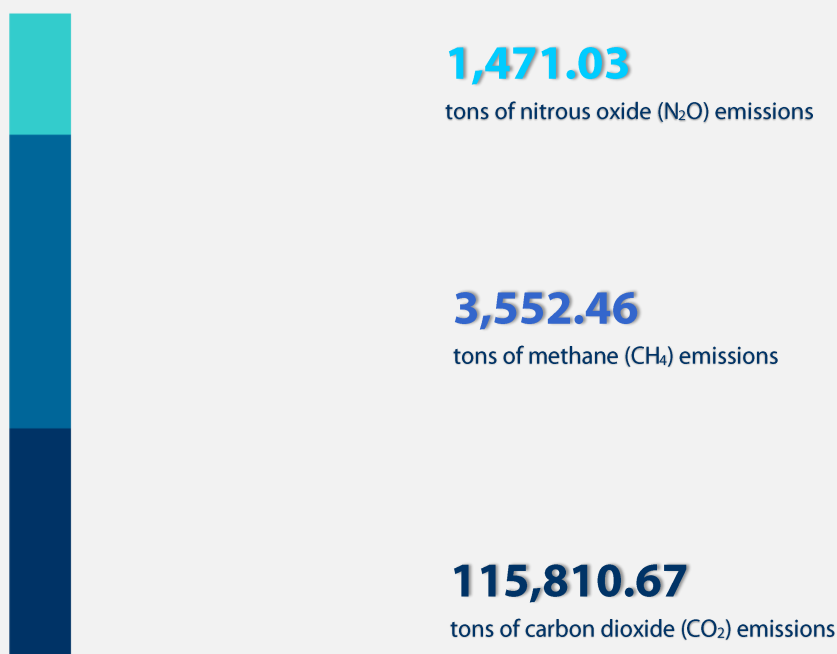
5 INTERNAL REPORTING AND PERFORMANCE

5.1 EMISSIONS BY CATEGORY, GHG TYPE, AND AIR POLLUTANT TYPE

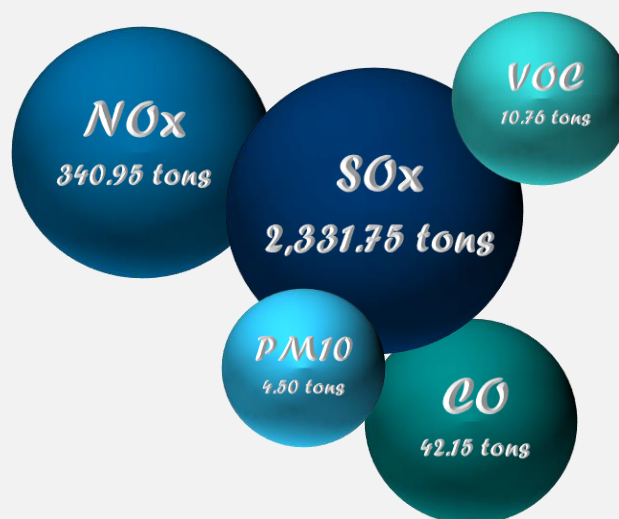
The significant emission sources of the company fall under Category 1, Category 2 and Category 3. The biggest portion of the total GHG emissions was still from the Category 2 sources or the purchased electricity which is 82.72% of the overall emissions. Category 1 sources or the fuel consumption from vehicles and engines contributes to next big portion of the total GHG emissions. It is 17.28% of the overall emissions. The remaining part or 0.01% of the company's emissions fall under Category 3 sources or from the business travel by air.



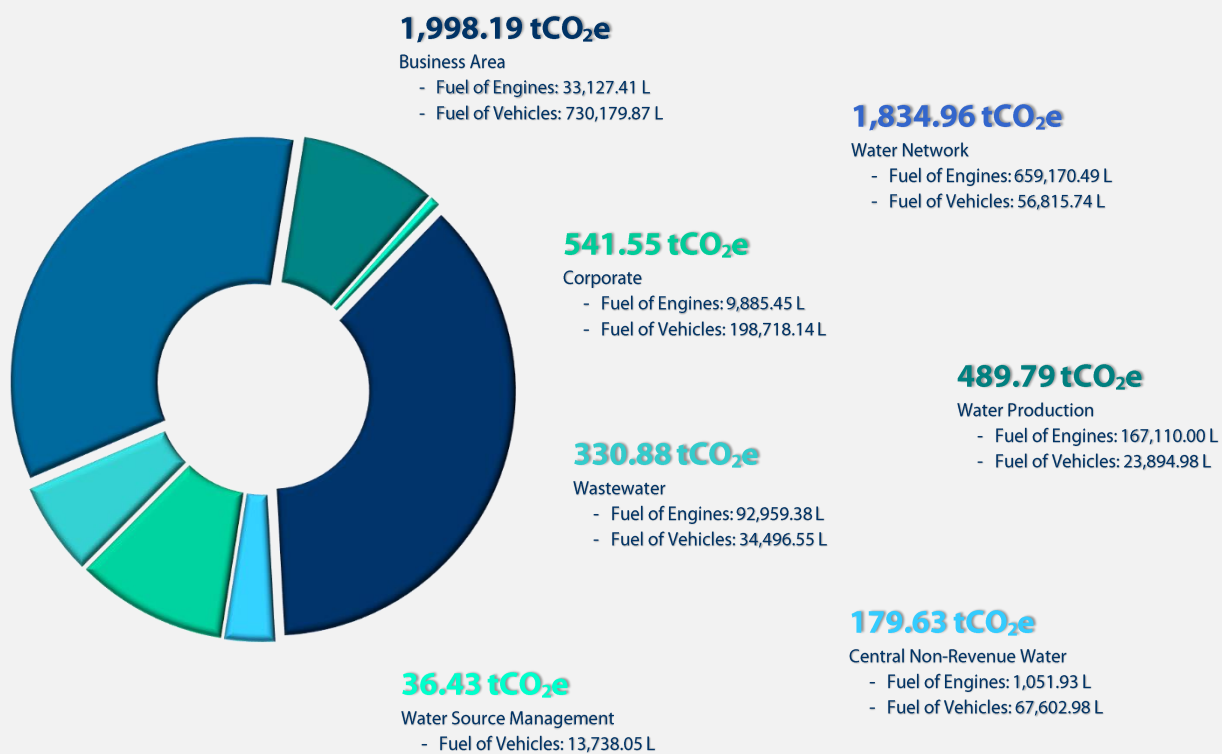
Among the three (3) greenhouse gases emitted by Maynilad, carbon dioxide (CO₂) is the most emitted GHG for the year 2022. The total CO₂ emitted by the company in 2022 is 115,810.67 tons which is 95.4% of the total GHG emissions for the year. Methane, another greenhouse gas emitted by the company, comprises 2.94% of the total GHG emissions for the year. This is equivalent to 3,552.46 tons of carbon dioxide equivalent. The remaining 1.22% of the total greenhouse gas emissions of the company is comprised of nitrous oxide (N₂O). This is equivalent to 1,471.03 tons of carbon dioxide equivalent.



Aside from the three greenhouse gases, Maynilad also monitors and accounts for its air pollutant emissions. There are five (5) air pollutants monitored by the company. These are sulfur oxides (SO_x), nitrogen oxides (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), and particulate matter 10 (PM₁₀). Among these air pollutants, SO_x is still the most emitted air pollutant for the year 2022 although there have been a 2.80% decrease when compared to the volume emitted the previous year. Likewise, PM₁₀ still remains the least emitted air pollutant though there have been a 14.02% increase in the volume emitted compared to the previous year.



5.2 EMISSIONS BY BUSINESS UNIT (SCOPE 1: CATEGORY 1)



5,411.43 tCO₂e

total emissions for Scope1: Category1

- 963,304.65 L total of Fuel of Engines consumed
- 1,125,446.31 L total of Fuel of Vehicles consumed



5.3 EMISSIONS BY BUSINESS UNIT (SCOPE 2: CATEGORY 2)



99,949.23 tCO_{2,e}

total emissions for Scope2: Category2

- 166,016,681.33 kWh total of Electricity consumed

5.4 PERFORMANCE MEASURES, TARGETS, AND BENCHMARKS

As Maynilad continues to grow to better serve its customers, it is currently not practical to determine the performance against fixed emissions targets. Despite of this, the company still aims to continually reduce the emissions intensity of its activities year on year. Maynilad will also assess the relevance of new measures and targets in each reporting period.

5.5 GHG EMISSION INTENSITY

As part of the company's GHG accounting and reporting process and also to ensure the accuracy of the data used to calculate for the overall emissions of the company, internal audits were conducted. The results of the internal audits were then submitted for external verification by an international certification body. For additional checking of the data and the report, a GHG verification audit was conducted for the three (3) reporting years by a third-party service provider. The verification audit is conducted also every three (3) years.

	Tonnes of CO ₂ e		
	2020	2021	2022
Scope 1	9,874.88	14,514.96	20,876.77
Scope 2	94,735.07	103,151.02	99,949.23
Scope 3	5.82	0	8.1516
Total Annual Gross Emissions	104,615.77	117,665.98	120,834.16
Water Produced + Treated Wastewater (ML)	989,659.00	1,021,042.00	984,885.04
GHG Intensity (tCO₂e/ML)	0.1057	0.1152	0.1227

Due to an increase in the emissions from refrigerants of approximately 94.43% compared to the previous year, Scope 1 emissions have increased by approximately 43.83% compared to the previous year. The emissions from the refrigerants comprises 50.35% of the total Scope 1 emissions. This increase

in the emissions from refrigerants can be attributed to an increase in the number of air-conditioning units serviced/ maintained for the year. Although it still remains to be the largest source of the overall greenhouse gas emissions, 82.72% of the total GHG emission, it can be observed that there was a slight decrease in the Scope 2 emissions or the emissions from the grid purchased electricity. Compared to the previous year, a decrease of 3.10% was seen.



*Maynilad released a total of **120,834.16** tons of CO_2 . This is equivalent to **0.1227** grams of CO_2 for every liter of water and wastewater treated.*

As the company still continues to expand its services and coverage area, the GHG emissions of Maynilad is still expected to somehow continue to increase. Despite of this, Maynilad still aims to minimize and reduce its emissions as it gears towards its goal of becoming a carbon neutral company.

ANNEX A – ISO 14064-1:2018 REPORTING INDEX

ISO Reporting	Section in this Report	ISO Reporting	Section in this Report
9.3.1 (a)	1.3	9.3.2 (a)	1.3
9.3.1 (b)	1.4	9.3.2 (b)	4.6
9.3.1 (c)	1.6	9.3.2 (c)	NA
9.3.1 (d)	2	9.3.2 (d)	NA
9.3.1 (e)	3	9.3.2 (e)	4.6
9.3.1 (f)	4.1	9.3.2 (f)	4.1
9.3.1 (g)	4.1	9.3.2 (g)	NA
9.3.1 (h)	4.6	9.3.2 (h)	5.5
9.3.1 (i)	3.3	9.3.2 (i)	4.3
9.3.1 (j)	4.1	9.3.2 (j)	4.6
9.3.1 (k)	4.5	9.3.2 (k)	4.6
9.3.1 (l)	4.5		
9.3.1 (m)	4.2	9.3.3	NA
9.3.1 (n)	4.2		
9.3.1 (o)	4.2		
9.3.1 (p)	4.4		
9.3.1 (q)	4.4		
9.3.1 (r)	1.7		
9.3.1 (s)	1.7		
9.3.1 (t)	4.2		

ANNEX B – GHG REPORT VERIFICATION STATEMENT

Report No: TRID-GHG-24003
Maynilad Water Services, Inc. Philippines



Opinion of Verification

29th May 2024
Maynilad Water Services, Inc.
MWSS Compound, Katipunan Ave., Balara, 1119 Quezon City,
Philippines

Scope

Maynilad Water Services, Inc. ("Responsible Party") engaged PT TUV Rheinland Indonesia ("TRID") to review Maynilad Water Services, Inc.'s 2022 Corporate Greenhouse Gas (GHG) Inventory, and supporting evidence, detailing the GHG emissions and associated source documents over the period January 1, 2022 to December 31, 2022. These components are collectively referred to as the "GHG Statement" for the purposes of this report.

The Responsible Party is responsible for the preparation and presentation of the information within the GHG Statement. Our responsibility is to express a conclusion as to whether anything has come to our attention to suggest that the GHG Statement is not presented fairly in accordance with generally accepted greenhouse gas (GHG) accounting standards, in particular ISO 14064 Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.

Methodology

We completed our review in accordance with the ISO 14064 Part 3: Greenhouse Gases: Specification with guidance for the verification and validation of greenhouse gas statements. As such, we planned and performed our work in order to provide limited, rather than absolute assurance with respect to the GHG Statement. Our review criteria were based on this guidance. We reviewed the GHG Statement and associated documentation and we believe our work provides a reasonable basis for our conclusion.

Conclusion

Based on our review, nothing has come to our attention which causes us to believe that the GHG Statement is not presented fairly in accordance with the relevant criteria. The emission estimates were calculated in a consistent and transparent manner and were found to be a fair and accurate representation of Maynilad Water Services, Inc.'s actual emissions and were free from material misstatement. TRID identified several minor, immaterial discrepancies in Maynilad Water Services, Inc.'s greenhouse gas inventory which were corrected by Maynilad Water Services, Inc. during the course of the verification. TRID has verified GHG Statement of Maynilad Water Services, Inc. as below:

PT TUV Rheinland Indonesia ;
Menara Karya Building, 10th Fl.Jl. HR. Rasuna Said Block X-5 Kav.1-2 Jakarta 12950, Indonesia

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT 2022

Report No: TRID-GHG-24003
Maynilad Water Services, Inc. Philippines



Emissions by scope in metric tons of CO ₂ equivalent (tCO ₂ e) in period of 2022	
Category 1: Direct GHG Emissions and Removals	20,876.77
o Direct emission from stationary combustion	2,433.80
o Direct emission from mobile combustion	2,967.64
o Direct fugitive emissions arise from the release of greenhouse gases in anthropogenic systems	15,465.34
Category 2: Indirect GHG Emissions from Imported Energy	99,949.23
o Indirect emissions from imported electricity	99,949.23
Category 3: Indirect GHG Emissions from Transportation	8.15
o Emissions from business travel	8.15
Total Emission	120,834.16

For and on behalf of PT TUV Rheinland Indonesia:

I Nyoman Susila
Managing Director

PT TUV Rheinland Indonesia ;
Menara Karya Building, 10th Fl.Jl. HR. Rasuna Said Block X-5 Kav.1-2 Jakarta 12950, Indonesia

ANNEX C – LIST OF FACILITIES

Facility		Excluded?	Reasons for Exclusion
Corporate	Arroceros Warehouse	No	
Corporate	Central Laboratory (WATERLab)	No	
Corporate	Central Materials Depot (Socea Bonna)	No	
Corporate	Head Office (Balara)	No	
Corporate	Quirino-Rosevelt Warehouse	No	
Corporate	Safety Center	No	
Corporate	Arroceros (Logistics, Clinic, PMD)	No	
Business Areas	Cavite Warehouse	No	
Business Areas	East Cavite/ West Cavite Business Area	No	
Business Areas	North Quezon City Business Area	No	
Business Areas	Malabon-Valenzuela Business Area	No	
Business Areas	Muntinlupa-Las Piñas Business Area	No	
Business Areas	Muntinlupa Warehouse	No	
Business Areas	North Caloocan Business Area	No	
Business Areas	Novaliches/Valenzuela Warehouse	No	
Business Areas	Parañaque-Pasay-Makati Business Area	No	
Business Areas	Parañaque Warehouse	No	
Business Areas	South Quezon City Business Area	No	
Business Areas	Manila Business Area	No	
Business Areas	Navotas-South Caloocan Business Area	No	
Central NRW	Arroceros Office (LDM Office)	No	
Central NRW	Gauging Points	Yes	battery operated
Central NRW	IMM Office (old Pasay Business Area)	No	
Central NRW	Meter Lab (La Mesa Compound)	No	with power consumption due to renovation
Wastewater Management	Alabang Water Reclamation Facility and Lift Station D	No	
Wastewater Management	Alabang Lift Station A (ATC)	No	
Wastewater Management	Alabang Lift Station B (Santiago)	No	
Wastewater Management	Alabang Lift Station C (Avocado)	No	
Wastewater Management	Alabang-Zapote Septage Treatment Plant	No	

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT 2022

	Facility	Excluded?	Reasons for Exclusion
Wastewater Management	Baesa Water Reclamation Facility	No	
Wastewater Management	Bagbag Water Reclamation Facility	No	
Wastewater Management	Bagbag Pump Station (PS)	No	
Wastewater Management	Bahay Toro Water Reclamation Facility	No	
Wastewater Management	Bahay Toro Lift Station (LS)	No	
Wastewater Management	Bahay Toro Pump Station (PS-1)	No	
Wastewater Management	Bahay Toro Pump Station (PS-2)	No	
Wastewater Management	Bahay Toro Pump Station (PS-3)	No	
Wastewater Management	Bahay Toro Pump Station (PS-4)	No	
Wastewater Management	Bahay Toro Pump Station (PS-5)	No	
Wastewater Management	Bahay Toro Pump Station (PS-6)	No	
Wastewater Management	Bahay Toro Pump Station (PS-8)	No	
Wastewater Management	Bahay Toro Pump Station (PS-9)	No	
Wastewater Management	Bahay Toro Pump Station (PS-10)	No	
Wastewater Management	Bahay Toro Pump Station (PS-11)	No	
Wastewater Management	Bahay Toro Pump Station (PS-12)	No	
Wastewater Management	Bahay Toro Pump Station (PS-13)	No	
Wastewater Management	Bahay Toro Pump Station (PS-14)	No	
Wastewater Management	Bahay Toro Pump Station (PS-15)	No	
Wastewater Management	Bahay Toro Weir	No	
Wastewater Management	Congressional Water Reclamation Facility	No	
Wastewater Management	Dagat-dagatan Water Reclamation Facility	No	
Wastewater Management	Dagat-dagatan Pump Station	Yes	for decommissioning
Wastewater Management	Del Monte Water Reclamation Facility and PS-3	No	
Wastewater Management	Del Monte Lift Station (LS-1)	No	
Wastewater Management	Del Monte Pump Station (PS-1)	No	
Wastewater Management	Del Monte Pump Station (PS-4)	No	
Wastewater Management	Grant Water Reclamation Facility	No	
Wastewater Management	Kapiligan Water Reclamation Facility	No	
Wastewater Management	Kapiligan Lift Station (LS-1)	No	
Wastewater Management	Kapiligan Pump Station (PS-2)	No	
Wastewater Management	Legal Water Reclamation Facility	No	

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT
2022

	Facility	Excluded?	Reasons for Exclusion
Wastewater Management	Legarda Lift Station	No	
Wastewater Management	Luneta Lift Station	No	
Wastewater Management	Malate Lift Station	No	
Wastewater Management	Paco Lift Station	No	
Wastewater Management	Paco Lift Station (LS-1)	No	
Wastewater Management	Paco-Quirino Lift Station	No	
Wastewater Management	Paco Pump Station (PS-1)	No	
Wastewater Management	Paco Water Reclamation Facility	No	
Wastewater Management	Paltok Water Reclamation Facility	No	
Wastewater Management	Paltok Pump Station (PS-1)	No	
Wastewater Management	Paltok Pump Station (PS-2 and PS-4)	No	
Wastewater Management	Paltok Pump Station (PS-3)	No	
Wastewater Management	Paranaque Water Reclamation Facility	No	Under contractor's in 2019
Wastewater Management	Paranaque MHP A03	No	
Wastewater Management	Paranaque PS-13	No	
Wastewater Management	Paranaque PS-14	No	
Wastewater Management	Paranaque PS-16	No	
Wastewater Management	Paranaque PS-17	No	
Wastewater Management	Paranaque PS-18	No	
Wastewater Management	Paranaque PS-21	No	
Wastewater Management	Paranaque PS-22	No	
Wastewater Management	Paranaque PS-25	No	
Wastewater Management	Paranaque PS-29	No	
Wastewater Management	Paranaque PS-30	No	
Wastewater Management	Paranaque PS-34	No	
Wastewater Management	Paranaque PS-35	No	
Wastewater Management	Paranaque PS-36	No	
Wastewater Management	Paranaque PS-38	No	
Wastewater Management	Paranaque PS-39	No	
Wastewater Management	Paranaque PS-40	No	
Wastewater Management	Paranaque PS-41	No	
Wastewater Management	Paranaque PS-43	No	

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT 2022

	Facility	Excluded?	Reasons for Exclusion
Wastewater Management	Paranaque PS-44	No	
Wastewater Management	Paranaque PS-45	No	
Wastewater Management	Paranaque PS-47	No	
Wastewater Management	Paranaque PS-48	No	
Wastewater Management	Paranaque PS-51	No	
Wastewater Management	Paranaque PS-52	No	
Wastewater Management	Paranaque PS-53	No	
Wastewater Management	Paranaque PS-54	No	
Wastewater Management	Paranaque PS-58	No	
Wastewater Management	Paranaque PS-59	No	
Wastewater Management	Paranaque PS-61	No	
Wastewater Management	Paranaque PS-81	No	
Wastewater Management	Paranaque PS-82	No	
Wastewater Management	Paranaque PS-84	No	
Wastewater Management	Paranaque PS-86	No	
Wastewater Management	Pasay Water Reclamation Facility	No	
Wastewater Management	Pasay PS-1	No	
Wastewater Management	Pasay PS-2	No	
Wastewater Management	Pasay PS-3	No	
Wastewater Management	PhilamLife Imhoff	No	
Wastewater Management	Port Area Lift Station	No	
Wastewater Management	Project 7 (Veterans) Water Reclamation Facility	No	
Wastewater Management	Project 7 (Veterans) Pump Station (PS)	No	
Wastewater Management	Samson Water Reclamation Facility	No	
Wastewater Management	San Antonio Water Reclamation Facility	No	
Wastewater Management	San Antonio Pump Station (PS-1)	No	
Wastewater Management	Sewer Network Maintenance Office	Yes	included in Bahay Toro WRF SID
Wastewater Management	Sta. Cruz Lift Station	No	
Wastewater Management	Talayan Water Reclamation Facility	No	
Wastewater Management	Talayan Lift Station (LS-1)	No	
Wastewater Management	Talayan Lift Station (LS-2)	No	
Wastewater Management	Talayan Pump Station (PS-1)	No	

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT
2022

	Facility	Excluded?	Reasons for Exclusion
Wastewater Management	Talayan Pump Station (PS-2)	No	
Wastewater Management	Talayan Pump Station (PS-3)	No	
Wastewater Management	Talayan Weir	No	
Wastewater Management	Tandang Sora Water Reclamation Facility and Pump Station (PS-2)	No	
Wastewater Management	Tandang Sora Pump Station (PS-1)	No	
Wastewater Management	Tandang Sora Pump Station (PS-3)	No	
Wastewater Management	Tandang Sora Pump Station (PS-4)	No	
Wastewater Management	Tatalon Water Reclamation Facility	No	
Wastewater Management	Tatalon Pump Station (PS-1)	No	
Wastewater Management	Tatalon Pump Station (PS-2)	No	
Wastewater Management	Tatalon Lift Station (LS-2)	No	
Wastewater Management	Tatalon Lift Station (LS-3)	No	
Wastewater Management	Tondo Sewage Pumping Plant	No	
Wastewater Management	Vitas Barge Loading Facility	No	
Water Production	La Mesa Treatment Plant 1 (including guest house)	No	
Water Production	La Mesa Treatment Plant 2 (SCAA)	No	
Water Production	Putatan Water Treatment Plant 1	No	
Water Production	Putatan Water Treatment Plant 2	No	
Water Source	CPF Office	No	
Water Source	Ipo – Office Building	No	
Water Source	Ipo – Military Barracks	No	
Water Source	Ipo – Security Barracks	No	
Water Network	Aguinaldo Pump Station and Reservoir	No	
Water Network	Alabang Junction PS	Yes	Inactive
Water Network	Alazap Pump Station	No	
Water Network	Algeciras Pumping Station and Reservoir	No	
Water Network	Amlac In-line Booster	No	
Water Network	Assistant 1 In-line Booster	Yes	Standby
Water Network	Assistant 2 In-line Booster	No	
Water Network	ASV DW# 4 (St. Jude)	No	
Water Network	ASV DW#3 (Southvale)	No	
Water Network	Ayala Alabang Reservoir 1	No	

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT 2022

Facility		Excluded?	Reasons for Exclusion
Water Network	Ayala Alabang Reservoir 2	No	
Water Network	Ayala Southvale Pump Station and Reservoir	No	
Water Network	Bacoor Pump Station and Reservoir	No	
Water Network	Baesa on-line	Yes	for decommissioning
Water Network	Baesa Pump Station and Reservoir	No	
Water Network	Bagbag Reservoir & Pumping Station	No	
Water Network	Bagong Silang Phase 10 DW	No	
Water Network	Bagong Silang Phase 9 DW	No	
Water Network	Baler In-line Booster	No	
Water Network	Binuksuk Reservoir	No	
Water Network	Bonifacio In-line Booster	No	
Water Network	Caloocan Pumping Station and Reservoir	No	
Water Network	Cherry In-line Booster w/ Reservoir	No	
Water Network	Commonwealth Pump Station	No	
Water Network	D. Tuazon Pump Station and Reservoir	No	
Water Network	Daang Hari Pump Station	No	
Water Network	Dangay In-line Booster	No	
Water Network	Del Rey III DW	Yes	Standby
Water Network	DMMA In-line Booster	No	
Water Network	Don Aguedo DW	Yes	Standby
Water Network	Don Jesus In-line Booster	No	
Water Network	Don Vicente In-line Booster	No	
Water Network	Ermata Pump Station and Reservoir	No	
Water Network	Esmeralda DW	Yes	Standby
Water Network	Espirito Pump Station and Reservoir	No	
Water Network	Fairview # 3 Pumping and Reservoir	Yes	Inactive
Water Network	Fairview # 4 Pumping and Reservoir	Yes	Inactive
Water Network	Fairview Ruby Booster Station	Yes	Inactive
Water Network	Fatima In-line Booster	No	
Water Network	France-Germany In-line Booster	No	
Water Network	Filinvest 1 Deepwell 1	No	with power consumption for 2021
Water Network	Filinvest 2 Deepwell 3	Yes	Inactive

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT
2022

Facility		Excluded?	Reasons for Exclusion
Water Network	Filinvest 2 Deepwell 4	Yes	Inactive
Water Network	Filinvest 2 Deepwell 5	Yes	Inactive
Water Network	Filinvest 2 Deepwell 6	Yes	Inactive
Water Network	Filinvest 2 Deepwell 7	Yes	Inactive/Standby
Water Network	Filinvest 2 Deepwell 8	Yes	Inactive; with ongoing project
Water Network	Fuel Depot (Sangley) PSR	No	
Water Network	Good Harvest DW	Yes	Inactive/Standby; with ongoing project
Water Network	Goodwill DW	No	
Water Network	Greenview #2 DW	Yes	with ongoing project
Water Network	Greenview #3 DW	Yes	with ongoing project
Water Network	Imus Sector DW	Yes	Inactive/Standby
Water Network	J. Felipe DW	No	
Water Network	JP Ramoy Reservoir	No	
Water Network	Karuhatan In-line Booster	No	
Water Network	Kingstown Deepwell 1	Yes	for decommissioning
Water Network	Kingstown Deepwell 2	Yes	for decommissioning
Water Network	La Mesa North A Annex	No	
Water Network	La Mesa North C Annex	No	
Water Network	La Mesa Pump Station	No	
Water Network	Lebanon In-line Booster with Reservoir	No	
Water Network	Litex Pump Station and Reservoir	No	
Water Network	Ma. Cristina Pump	Yes	Inactive/Standby
Water Network	Madrigal pump	Yes	Inactive/Standby
Water Network	Magallanes In-line Booster	No	
Water Network	Magasalang 2A DW	Yes	Inactive/Standby
Water Network	Magasalang 2D DW	No	Inactive/Standby
Water Network	Magdiwang Pump Station and Reservoir	No	
Water Network	Maharlika PS	No	
Water Network	Maligaya In-line Booster	No	
Water Network	Marcos Alavrez Pump Station	No	
Water Network	Mindanao In-line Booster	No	
Water Network	Molino-Paliparan Pump Station and Reservoir	No	

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT 2022

Facility		Excluded?	Reasons for Exclusion
Water Network	Molino DW	No	
Water Network	Molino IB	No	
Water Network	Mutual Homes 1 In-line Booster	No	
Water Network	New Crescini DW	No	
Water Network	New Mutual DW	Yes	Inactive/Standby
Water Network	New Noveleta 4 DW	Yes	Inactive/Standby
Water Network	New Pio online booster	No	
Water Network	New Reparo In-line Booster	No	
Water Network	Novaliches Pumping Station and Reservoir	No	
Water Network	Noveleta Pump Station and Reservoir	No	
Water Network	Pagcor Pump Station and Reservoir	No	
Water Network	Pamahay Homes DW	Yes	Inactive/Standby
Water Network	Pandawan DW	No	
Water Network	Parkland In-line Booster	No	
Water Network	Pasay Pumping Station and Reservoir	No	
Water Network	Patindig Araw Pump Station	No	
Water Network	Poblacion DW	Yes	for decommissioning, no power consumption for 2021
Water Network	Port San Felipe In-line booster w/ Reservoir	No	
Water Network	President In-line Booster	No	
Water Network	Primary Network (old maintenance office in LMTP)	No	
Water Network	Putatan 1 PSR (Booster 1-6, 9)	No	
Water Network	Putatan 2 PSR (Booster 7, 8, 10)	No	
Water Network	R. Valenzuela In-line Booster	No	
Water Network	Rainbow	Yes	for decommissioning
Water Network	Remarville In-line Booster	No	
Water Network	Reparo In-line Booster	No	
Water Network	Rivero DW	No	Standby
Water Network	Rockville 2 DW	No	
Water Network	Sacred Heart Pump Station and Reservoir	No	
Water Network	Sacred Heart Reservoir	No	
Water Network	Sampaguita In-line Booster	No	
Water Network	Saranay In-line Booster	No	Inactive

GREENHOUSE GASES AND AIR POLLUTANT EMISSIONS REPORT
2022

Facility		Excluded?	Reasons for Exclusion
Water Network	Severina In-line Booster	No	
Water Network	South Greenheights In-line Booster	No	
Water Network	Southvale Deepwell 3	Yes	Inactive
Water Network	Southvale Deepwell 4	Yes	Inactive
Water Network	Sta. Quiteria In-line Booster	No	
Water Network	Sunriser In-line Booster	No	
Water Network	Tamaraw In-line Booster	No	
Water Network	Tanada DW	No	
Water Network	Tandang Sora In-line Booster	No	
Water Network	Tirona (Toclong Pump Station and Reservoir)	Yes	no operations in 2022
Water Network	Tondo Pumping Station and Reservoir	No	
Water Network	Torresville In-line Booster	No	
Water Network	University In-line Booster	No	
Water Network	Versailles PSR	No	
Water Network	Victoria Homes Pump Station and Reservoir	No	
Water Network	Villa Gracia	Yes	for decommissioning
Water Network	Villamor Pump Station and Reservoir	No	
Water Network	Vitas 1 Mini Booster	No	no power consumption
Water Network	Vitas 2 Mini Booster	No	no power consumption
Water Network	WNET Office	No	