



PHILIP MORRIS
INTERNATIONAL

DECLARATION OF CARBON NEUTRALITY

MARKET ENTITIES CLUSTER 2

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1 Carbon neutrality declaration

The **Qualifying Explanatory Statement** (QES) contains all the required information on the carbon neutrality of the given subject. All information provided within this report has been reviewed by a third party (SGS) and is believed to be correct. If provided with any information affecting the validity of the following statements, this document will be updated accordingly to reflect the affiliate(s) current status towards carbon neutrality.

This is the first declaration of achievement of carbon neutrality for the following list of markets that will be collectively referred to as "Markets Cluster 2" in this document:

Country	Legal Entities
Algeria	Philip Morris Algeria SARL
Aruba	Superior Tobacco Co N.V.
Belgium	Philip Morris Benelux B.V.
Canada	Rothmans, Benson & Hedges Inc.
China	Philip Morris (China) Management Co. Ltd.
China	Philip Morris Electronics (Shenzhen) Ltd.
Colombia	Compania Colombiana de Tabaco S.A.S.
Croatia	PHILIP MORRIS ZAGREB, D.O.O. ZA VANJSKU I UNUTARNJU TRGOVINU
Curaçao	Superior Tobacco Company Curacao N.V.
Cyprus	Philip Morris Cyprus Ltd
Czech Republic	Philip Morris CR a.s.
Dominican Republic	PHILIP MORRIS DOMINICANA, S.A.
Ecuador	Industrias del Tabaco, Alimentos y Bebidas S.A. ITABSA
Ecuador	Provedora Ecuatoriana S.A. PROESA
El Salvador	Philip Morris El Salvador Sociedad Anonima de Capital Variable
Estonia	Philip Morris Eesti Osauhing
Guatemala	Tabacalera Centroamericana Sociedad Anonima
Hong Kong	Philip Morris Travel Retail Hong Kong Limited
Hong Kong incl Macau	Philip Morris Asia Limited
Jamaica & TT	Philip Morris T & T Limited
Latvia	SIA Philip Morris Latvia

Country	Legal Entities
Lithuania	UAB Philip Morris Baltic
Luxembourg	Philip Morris Luxembourg S.A.R.L.
Mexico	Philip Morris Mexico Productos y Servicios, S de R.L de C.V
Mexico	Philip Morris Mexico S.A de C.V.
Morocco	PHILIP MORRIS MAGHREB SARL
Netherlands	Philip Morris Investments B.V.
Nicaragua	Philip Morris Nicaragua Sociedad Anonima
Panama	PHILIP MORRIS PANAMA SOCIEDAD EN COMANDITA POR ACCIONES
Peru	Philip Morris Peru, Sociedad Anónima
Philippines	PMFTC INC.
Philippines	PMI Business Solutions (Philippines) Inc.
Romania	Philip Morris Trading S.R.L.
Singapore	Philip Morris Singapore Pte. Ltd.
Slovenia	Philip Morris Ljubljana, storitveno podjetje, d.o.o.
Switzerland	Philip Morris Finance SA
Switzerland	Philip Morris International IT Service Center Sarl
Switzerland	Philip Morris International Services Sarl
Switzerland	Philip Morris Products S.A.
Switzerland	Philip Morris Switzerland Sarl
Switzerland	Philip Morris World Trade S.a r.l.
Taiwan	Philip Morris Taiwan S.A.
Tunisia	Philip Morris North Africa SARL
Venezuela	C.A. TABACALERA NACIONAL (CATANA)

Table 1.1 - Market Legal Entities

Carbon neutrality of the Scope 1 and 2 emissions under the direct operational control of Market Entities Cluster 2, including their office, warehouse, fleet and retail operations achieved by Market Entities Cluster 2, in accordance with PAS2060:2014 for the period 1 January 2023 to 31 December 2023 with a commitment to maintain to 31 December 2025, SGS United Kingdom Limited Certified.

Certification letter from SGS can be found in Annex A.

2 Introduction

This document forms the Qualifying Explanatory Statement (QES) to demonstrate that Philip Morris International “Markets Cluster 2” has achieved **carbon neutrality** for the period starting 1st January 2023 and ending 31st December 2023 in accordance with PAS 2060:2014.

This has been achieved through:

- **Continuous carbon emissions reduction** through action plans under PMI direct controls: office, warehouse, fleet and retail operations under affiliates’ control. These reductions have been captured as part of the GHG inventory for 2023.
- **Compensation of remaining carbon emissions** for the period commencing 1st January 2023 and ending 31st December 2023.

This report includes the information which substantiates the declaration of PMI affiliate’s achievement of carbon neutrality for this application period (under PAS 2060:2014) and commitment on carbon neutrality up to 2025 (2 years, from 2023 the reference year) in compliance with PAS 2060:2014 standard.

The Markets Cluster 2 affiliates have also set up a Carbon Management Plans to reduce the GHG emissions associated to the office, warehouse, fleet and retail operations to demonstrate commitment to being carbon neutral in accordance with PAS2060:2014 standard.

2.1 General information

PAS 2060 Information requirement	Information as it relates to PMI affiliates
Entities making PAS 2060 declarations	Markets Cluster 2, as per <i>Table 1.1 - Market Legal Entities</i> .
Individual responsible for the evaluation and provision of the data necessary for the substantiation of the declaration (inc. preparing, substantiating, communicating and maintaining the declaration)	Len Beggs
Subject of PAS 2060 declaration	Scope 1 and 2 emissions under the direct operational control of Markets Cluster 2, as per <i>Table 1.1 - Market Legal Entities</i> , from offices, warehouse, fleet and retail operations (full list available in Annex C).
Function of subject	Sales and distribution of products for PMI and its brands.
Activities required for subjects to fulfil its function	The activities required within the office, warehouse, fleet and retail operations are: <ul style="list-style-type: none"> • Sales • Distribution • Marketing • Administration • Facility management
Rationale for selection of the subjects	PMI's ambition is to be carbon neutral for all of its direct operations (full scope 1 and 2) by 2025. In this journey, all subjects (factories, offices, warehouses, fleet, retail) that have reached substantial emission reduction in the past years qualify to compensate residual emissions and become carbon neutral.
Type of conformity assessment undertaken	I3P-3 Independent third-party certification - unified
Reference date for PAS 2060 program	1 st of January 2023
Achievement period	1 st of January 2023 – 31 st of December 2023
Commitment period	1 st of January 2023 – 31 st of December 2025

Table 2.1 - General information

2.2 Scope

The subject for carbon neutrality is the entities grouped in Markets Cluster 2.

The main business activities of these entities is the distribution, sales and marketing of PMI brands.

During the reporting period, the definition of the subject(s) remained unchanged. In the case that material change occurs to the subject(s) in the future, the process of determination and substantiation of the subject(s) and associated GHG emissions shall be re-started on the basis of newly defined subject(s).

2.3 Boundaries of the subject

The system boundaries considered for the organizational carbon footprint of the subject are the activities occurring within the physical perimeter of the entities and under the entities' control (excluding manufacturing and Swedish Match) including:

- Offices
- Warehouses
- Fleet
- Retail stores

GHG emissions associated with entities in Markets Cluster 2 office, warehouse, fleet and retail operations within the defined boundary for the period of 1st January 2023 to 31st December 2023 have been quantified in accordance with GHG Protocol Corporate Accounting Standard (operational control) and verified by SGS.

SGS then certifies that the Carbon Neutral Declaration set out in this QES is appropriately reported in accordance with the requirement of PAS 2060:2014.

The assurance letter issued by SGS can be found in Annex A.

3 Quantification of carbon footprint

3.1 Emissions results

The total GHG emissions related to scope 1 and 2 refer to office, warehouse, fleet and retail operations during the year 2023 (application period) and represent a total **25,683.4 tons of CO₂ equivalent**.

Country	Legal Entities	Scope 1 (t CO ₂ eq)	Scope 2 (t CO ₂ eq)	Total Scope 1 and 2 (t CO ₂ eq)
Algeria	Philip Morris Algeria SARL	311.4	27.2	338.6
Aruba	Superior Tobacco Co N.V.	13.3	25.0	38.3
Belgium	Philip Morris Benelux B.V.	709.6	23.2	732.8
Canada	Rothmans, Benson & Hedges Inc.	1,445.8	376.6	1,822.4
China	Philip Morris (China) Management Co. Ltd.	35.1	29.3	64.4
China	Philip Morris Electronics (Shenzhen) Ltd.	0.0	113.8	113.8
Colombia	Compania Colombiana de Tabaco S.A.S.	550.2	171.0	721.3
Croatia	PHILIP MORRIS ZAGREB, D.O.O. ZA VANJSKU I UNUTARNJU TRGOVINU	237.5	0.8	238.3
Curaçao	Superior Tobacco Company Curacao N.V.	27.7	52.3	80.0
Cyprus	Philip Morris Cyprus Ltd	42.1	22.7	64.8
Czech Republic	Philip Morris CR a.s.	867.8	134.2	1,002.0
Dominican Republic	PHILIP MORRIS DOMINICANA, S.A.	680.8	226.3	907.1
Ecuador	Industrias del Tabaco, Alimentos y Bebidas S.A. ITABSA	53.5	14.2	67.7
Ecuador	Provedora Ecuatoriana S.A. PROESA	457.8	22.8	480.6
El Salvador	Philip Morris El Salvador Sociedad Anonima de Capital Variable	53.9	0.9	54.8
Estonia	Philip Morris Eesti Osauhing	16.8	19.3	36.1
Guatemala	Tabacalera Centroamericana Sociedad Anonima	171.1	19.1	190.2
Hong Kong	Philip Morris Travel Retail Hong Kong Limited	0.0	10.0	10.0
Hong Kong incl Macau	Philip Morris Asia Limited	10.8	217.2	228.1
Jamaica & TT	Philip Morris T & T Limited	4.2	5.0	9.2
Latvia	SIA Philip Morris Latvia	21.4	14.5	35.9
Lithuania	UAB Philip Morris Baltic	130.9	30.7	161.6

Country	Legal Entities	Scope 1 (t CO ₂ eq)	Scope 2 (t CO ₂ eq)	Total Scope 1 and 2 (t CO ₂ eq)
Luxembourg	Philip Morris Luxembourg S.A.R.L.	20.5	0.5	21.0
Mexico	Philip Morris Mexico Productos y Servicios, S de R.L de C.V	1,681.8	71.0	1,752.8
Mexico	Philip Morris Mexico S.A de C.V.	296.5	515.5	811.9
Morocco	PHILIP MORRIS MAGHREB SARL	265.5	43.0	308.5
Netherlands	Philip Morris Investments B.V.	515.3	19.0	534.3
Nicaragua	Philip Morris Nicaragua Sociedad Anonima	33.1	1.4	34.4
Panama	PHILIP MORRIS PANAMA SOCIEDAD EN COMANDITA POR ACCIONES	42.6	3.8	46.3
Peru	Philip Morris Peru, Sociedad Anónima	38.6	1.8	40.3
Philippines	PMFTC INC.	10,891.2	25.6	10,916.8
Philippines	PMI Business Solutions (Philippines) Inc.	242.8	32.1	274.9
Romania	Philip Morris Trading S.R.L.	556.8	61.5	618.3
Singapore	Philip Morris Singapore Pte. Ltd.	59.8	109.7	169.5
Slovenia	Philip Morris Ljubljana, storitveno podjetje, d.o.o.	80.7	25.3	106.1
Switzerland	Philip Morris Finance SA	14.0	0.0	14.0
Switzerland	Philip Morris International IT Service Center Sarl	665.5	0.0	665.5
Switzerland	Philip Morris International Services Sarl	2.8	0.0	2.8
Switzerland	Philip Morris Products S.A.	736.6	0.0	736.6
Switzerland	Philip Morris Switzerland Sarl	802.7	3.0	805.7
Switzerland	Philip Morris World Trade S.a r.l.	77.7	0.0	77.7
Taiwan	Philip Morris Taiwan S.A.	90.0	114.2	204.2
Tunisia	Philip Morris North Africa SARL	100.1	30.1	130.2
Venezuela	C.A. TABACALERA NACIONAL (CATANA)	5.4	8.3	13.7
Cluster 2 Total		23,061.5	2,622.0	25,683.4
% of Total		89.8	10.2	100.0

Table 3.1 - GHG emissions overall results

3.2 Methodology

Total GHG emissions associated with entities in Markets Cluster 2, 1st January 2023 to 31st December 2023, have been quantified according to GHG Protocol, Corporate Accounting and Reporting Standard, following the operational control approach. This methodology was chosen as it represents best practice in terms of organization carbon footprint inventory and PAS 2060:2014 endorses it as being fully compliant with its requirements.

The types of greenhouse gases (GHG) included in the Kyoto Protocol to the United Nations Framework Convention on Climate Change are required for reporting under the GHG Protocol Corporate Standard and the below listed were covered in the calculations:

- carbon dioxide (CO₂),
- methane (CH₄),
- nitrous oxide (N₂O).

The inventory accounts for 100% of GHG emissions of business activities and operations in which PMI affiliate(s) has direct operational control and the full authority to introduce and implement its operating policies (excluding manufacturing and Swedish Match).

All scope 1 and 2 greenhouse gas emissions relevant to the system boundary are included and quantified, in accordance with the GHG Protocol, Corporate Accounting and Reporting Standard, as confirmed by SGS verification.

3.2.1 Scope 1

GHG emissions related to scope 1 come from direct emissions from sources owned or controlled by entities within Markets Cluster 2. In PMI context, scope 1 emissions result from:

- Stationary combustion of:
 - Natural gas
 - LPG, propane and butane
 - Diesel – (fuel oil)
 - Heavy fuel oil
 - Petrol
 - Biomass
- Mobile combustion of:
 - Petrol
 - Diesel
 - Biodiesel
 - Bioethanol
 - Natural gas (compressed)

3.2.2 Scope 2

GHG emissions related to scope 2 come from indirect emissions from the generation of purchased electricity, steam, heat and cooling consumed by the entities in Markets Cluster 2. In PMI context, scope 2 emissions are from the consumption of:

- Purchased electricity
- District steam
- District heating (inc. cooling)

3.2.3 Scope 3

GHG emissions related to scope 3 refers to all other indirect emissions as a consequence of the activities of the entities within Markets Cluster 2 that occurs from sources not owned or controlled by these entities. These emissions are out of scope of this declaration.

3.3 Data sources

Primary and secondary data has been used for the Carbon Quantification process. Primary data is used where possible, only where primary data was not available, secondary data is used to quantify emissions.

While scope 2 emissions for some PMI sites may be estimated, wherever possible emissions are reported based on direct utilities consumption – invoice data. The consumption is then multiplied using the relevant IEA coefficient to determine the emissions for that energy source.

Fuel consumption data for fleet vehicles are reported based on direct consumption. The total fuel consumption is then multiplied using relevant DEFRA coefficients to determine the emissions.

Data sources (e.g., invoices) were reviewed by SGS through the inventory verification, and certification against PAS 2060:2014 processes.

Assumptions and estimations

Wherever possible primary data is used to determine our scope 1 and 2 emissions. In some cases, primary data is not available. In these cases, the affected market estimates their consumption using the surface area and average PMI consumption rates from the previous year for the relevant surface type (eg office or warehouse). For retail space estimations, industry averages are used to estimate consumption where primary data is not available.

In some markets where there are multiple legal entities, but data is captured at country level, then the consumption is spread across the legal entities. In some cases, the split is well defined in the market (e.g. entity one owns site A, entity 2 owns site B etc). In other cases, it is less obvious for the separation of emissions. In these cases, the headcount associated with each entity is used to allocate emissions between legal entities.

A similar situation can arise with the fleet emissions. In countries with multiple legal entities, fleet emissions are either allocated based on vehicle count in each entity or kilometers travelled by each entity.

In each case where the emissions are spread across legal entities using one of the methods described above, the total emissions is not compromised for the country.

All data related to Philip Morris market declared greenhouse gas emissions has been reviewed by SGS through the GHG inventory verification process.

3.4 Exclusions

Annex C outlines all the inclusions and exclusions for GHG emissions; to ensure the coverage of any potential exclusions within the system boundary an additional 3% has been added to affiliates' total carbon footprint to ensure the carbon neutrality program covers 100% of the GHG emissions.

3.5 Uncertainties

Generally, the use of secondary data throughout the assessment represents the major source of uncertainties on results. Actions taken to minimize these uncertainties are described below and were reviewed by SGS.

- Secondary emissions factors: uncertainty associated to the use of secondary emission factors is because they represent averages, rather than specific emissions. However, their use was appropriate, and care has been taken to use the best available datasets (DEFRA and IEA).
- Primary activity data has been used where practical for fleet and office emissions.

Result of the uncertainty calculation is reported in Annex D.

3.6 Comparison with baseline period results

This section will be completed in subsequent years. 2023 is the first PAS 2060:2014 certification year, and therefore will be used as baseline period subsequently.

4 Carbon Management Plan

The carbon reduction management plan considers a 3-year period (2023-2025) with the aim of reducing emissions and/or emissions intensity.

This target will be monitored periodically (minimum annually) to check if the expected outcomes are aligned to the actual results. To achieve the target a series of projects will be implemented.

The following paragraphs explain in detail projects implemented in entities in Markets Cluster 2, that relate related to office, warehouse, fleet and retail operations GHG emissions reductions.

4.1 PMI global best practice

In 2023, 92.8% of PMI's purchased electricity came from renewable sources. Since 2017, we are gradually increasing the uptake of green electricity (as showed in below table) with the aim to reach 100% green electricity purchased for all our affiliates by 2025. By investing in renewable energy electricity, PMI overall avoided the emissions of **over 1.9 million tonnes of CO₂ equivalent between 2017 and 2023**.

Indicator	2017	2018	2019	2020	2021	2022	2023	Total
Purchased electricity [MWh]	858,511	870,181	890,430	823,365	809,464	818,363	850,999	5,921,313
Electricity purchased from renewable sources [MWh]	442,739	544,845	616,336	612,694	663,106	715,257	789,318	4,384,294
% Renewable	51.6	62.6	69.2	74.4	81.9	87.4	92.8	74.0
CO2 Scope 2 (GHG emissions) - Market based [t GHG]	229,977	164,159	132,721	90,370	64,217	42,482	28,727	752,654
CO2 Scope 2 (GHG emissions) - Location based [t GHG]	427,238	410,441	420,725	383,899	361,314	358,475	371,719	2,733,812
Difference between location based and market based	197,261	246,281	288,004	293,530	297,097	315,994	342,992	1,981,158

Table 4.1 - Avoided CO2 emissions due to green electricity increase

4.2 Implemented GHG emissions reduction project repository in Markets Cluster 2

At PMI, emissions reduction project governance and budget approval come from two distinctive main streams; one driven from central functions and another by the local team. Table 4.2 shows projects implemented or under implementation in the last few years, evaluated in 2023 carbon footprint assessment.

Country	Description	Timing	Emissions Reduction [kgs CO2 eq]
Global	Telematics implementation To increase safe and eco driving awareness and make safe and eco driving a habit, telematic solutions have been implemented. The plan is to cover 100% of working tool vehicles.	2023 and ongoing	5,466,931
Global	Reduced emission vehicle limits Reducing the maximum permissible emissions levels of vehicles to ensure our fleet has constant downward pressure on our overall emissions.		
Global	Fleet electrification Reviewing vehicle replacement options with a view to moving to hybrid, plug in hybrid and electric vehicles.		
Global	Driving elearning training, "Fleet Defense" Drivers in the markets in scope have been undergoing driver training, which is expected to improve anticipatory driving, thereby reducing fuel emissions.		
Global	Market Scorecard Market comparison score card which contains the requirement for them to have a CO2 reduction plan.	Since 2022	Difficult to quantify with certainty, but a measure we believe is important to raise awareness and commitment in markets.
Mexico	Awareness/engagement - Reforestation	2021	Difficult to quantify, but still a good initiative for organizational culture.
Switzerland	Operation Center Rhodanie Campus: Climate control optimization	2023	126 MWh energy saving, no CO2 due to green electricity being used
Switzerland	Operation Center Rhodanie Campus: Renewable Energy (solar panel installation)	2009	45 MWh energy saving, no CO2 due to green electricity being used

Country	Description	Timing	Emissions Reduction [kgs CO2 eq]
Switzerland	Operation Center Rhodanie Campus Childcare: Renewable Energy (Installation of solar thermal panels.)	2010	7 MWh energy saving, no CO2 due to green electricity being used
Switzerland	Operation Center Rhodanie Campus: Replacing incandescent/halogen bulbs to LED	2028	Energy saving, no CO2 due to green electricity being used
Croatia	Renewable Electricity/Green energy	2020	100% of emissions from electricity usage
Slovenia	Renewable Electricity/Green energy	2021	100% of emissions from electricity usage
China	Office lighting Efficiency	2023	Not measured at this stage
China	Motion sensors for lights	2023	Not measured at this stage
BeNeLux	Office move to Green office building	2019	81,000
BeNeLux	Solar panels installed by landlord	2019	
Ecuador	Change Commercial Model: Distribution Model Change	2023	Not measured at this stage
El Salvador	Fleet Size Impact - Reduction of number of vehicles	2023	7,750
Nicaragua	Fleet Size Impact - Reduction of number of vehicles	2023	32,355
Baltics	Renewed special posters in printing areas to remind employees about conscious printing practices	2023	Difficult to quantify, but still a good initiative for efficiency and organizational culture.
Baltics	Special "OFF when not in use" stickers next to the light switches to encourage staff to switch off lights when leaving the room	2023	Difficult to quantify, but still a good initiative for efficiency and organizational culture.
Baltics	Energy saving lamps used.	2023	Not measured at this stage
Philippines	Electric working tool vehicles (10 vehicles)	2023	85,038
Philippines	Renewable electricity	2023	2,400,000
Singapore	Tree planting in Bintan	2023	Difficult to quantify, but still a good initiative for organizational culture.
Singapore	Autoshut aircon and lighting after office hours to control energy usage. Office equipment (e.g. printer) will be	2023	Not measured at this stage

Country	Description	Timing	Emissions Reduction [kgs CO2 eq]
	automatically switched to sleep mode to conserve energy.		
Tunisia	Scope 2 - Change of office to one with LEED 2018	2018	Difficult to quantify
Morocco	Scope 2 - Change of office to one with LEED 2017	2017	Difficult to quantify
Maghreb	Energy Awareness Campaign (Lunch hour lights-off)	Ongoing	Difficult to quantify, but still a good initiative for organizational culture.
Maghreb	Awareness session for employees on world environment day where external guests were invited to speak & promote environmentally sustainable activities. The session was broadcasted for all employees.	2023	Difficult to quantify, but still a good initiative for organizational culture.

Table 4.2 - Implemented GHG emissions reduction projects

4.3 Planned GHG emissions reduction initiatives in Markets Cluster 2

In order to achieve the above-mentioned target, PMI is committed to identifying and implementing carbon saving projects until 31/12/2025. Table 4.3 shows main initiatives identified and estimated reduction for the whole commitment period (2023-2025). Note that the global programs listed in table 4.2 continue into 2024.

Country	Description	Timing	Emissions Reduction [kgs CO2 eq]
Mexico	Awareness/engagement - Restore natural habitats. Restoration of 400 hectares through the protection, management and establishment of agroforestry systems	2023	Not certified. Each reforested hectare contributes to reducing up to 400 tons of Co2 annually. PM contribution difficult to quantify, but still a good initiative for organizational culture.
Switzerland	IQOS Boutiques in Switzerland : reach the "good" level of BREAM certification	2025	Difficult to quantify, but still a good initiative for efficiency and organizational culture
China	Awards for employees who reduce fuel consumption	2024	Difficult to quantify, but still a good initiative for efficiency and organizational culture
China	Energy Awareness Campaigns	2024	Difficult to quantify, but still a good initiative for efficiency and organizational culture
China	Giving a 'tree' as a gift or for special events.	June-24	Difficult to quantify, but still a good initiative for organizational culture
China	Digitalization/less printing	2024	Difficult to quantify, but still a good initiative for efficiency and organizational culture
BeNeLux	Sustainable September - Commuting to office	Sep-24	Difficult to quantify, but still a good initiative for efficiency and organizational culture
BeNeLux	Sustainable September - planting trees	Sep-24	Difficult to quantify, but still a good initiative for organizational culture

Andean	Site space consolidation - Medellín DSD, Medellín warehouse, Bogota DSD, Ecuador office	2024	TBD
MEXICAC	Reforestation activity	Jun-24	Difficult to quantify, but still a good initiative for organizational culture
Dominican Republic	Office relocation - 30% reduction m2	Q4-24	TBD
MEXICAC	Capabilities Building - Sustainability Awareness	Q2- 24	Difficult to quantify, but still a good initiative for efficiency and organizational culture
Trinidad & Tobago	Fleet Size Impact - Reduction of number of vehicles	Nov -23	TBD
Hong Kong	Participated in GPP Campaign by Office Building Management on office Energy Saving, Water Usage Reduction & Recycling	2024	Difficult to quantify, but still a good initiative for efficiency and organizational culture
Philippines	Electric working tool vehicles (additional 30 vehicles)	2024	255,115
Singapore	Route optimization to improve overall emissions from fleet and third-party delivery (Project Yin Yang)	Dec-24	TBD
Maghreb	Scope 2 - automatic switch off of lamps in toilets (when not in use)	Dec-24	TBD
Morocco	Improve Air Conditioner efficiency	Dec-24	TBD

Table 4.3 - Planned GHG emissions reduction initiatives

Actual emissions reductions will be measured in terms of absolute emissions compared year on year.

5 Carbon offset program

5.1 Offset program for the first application period

PMI has an offsetting program in place to support the carbon neutrality, based on quality criteria aligned with the most rigorous international standards and targeting social and economic benefits.

Carbon neutrality is achieved by reducing and compensating Greenhouse Gases (GHG) emissions through supporting the development of sustainable climate solutions in developing countries. Compensation projects bring social, environmental and economic benefits, which contribute to United Nations Sustainable Development Goals (SDGs) and are labelled by independent carbon standards such as the VERRA Standard (VCS)¹, Climate Community and Biodiversity Alliance (CCBA)², Gold Standard³, and other offsets as endorsed in PAS2060.

Credits were retired on 22 November 2024.

These projects are supported by publicly available project documentation on the [GSF Registry \(goldstandard.org\)](https://registry.verra.org/)⁴ and on <https://registry.verra.org/>. The registry system is the central storehouse of data on all registered projects, and tracks the generation, retirement and cancellation of all credits. To register with the program, projects must show that they have met all standards and methodological requirements.

¹ <https://verra.org/>

² <http://www.climate-standards.org/>

³ <https://www.goldstandard.org/>

⁴ <https://registry.goldstandard.org/projects?q=&page=1>

5.2 Offsetting project(s)

Offsetting projects selected by Markets Cluster 2 for compensating the 2023 emissions are:

Project Name	Description of Project	Official Project Link
Kantingan Peatland Restoration and Conservation Project	The Kantingan Restoration and Conservation Project ('The Kantingan Project') protects and restores 149,800 hectares of peatland ecosystems, to offer local communities sustainable sources of income, and to tackle global climate change. The project lies within the districts of Kantingan and Kotawaringin Timur in Central Kalimantan Province and covers one of the largest remaining intact peat swamp forests in Indonesia.	Kantingan Peatland VCS 1477
Pacajai REDD+ Project	REDD Project to stop deforestation within private parcels amounting to 135,105 Ha at the edge of the deforestation frontier in Brazil. The project will generate multiple climate, social, and biodiversity benefits.	Pacajai REDD+ Project VCS 981

Table 5.1 - Offsetting Projects

Offsetting retirements per legal entity for Markets Cluster 3 for compensating the 2023 emissions are as follows:

Country	Legal Entity	Project chosen for compensation			Final requested offset value [tCO ₂]
		Kantingan Peatland Restoration and Conservation Project		Pacajai REDD+ Project	
		6358-303209602-303222401-VCU-016-APX-ID-14-1477-01112015-31122016-1	6359-307878967-307896966-VCU-016-APX-ID-14-1477-01012017-31122017-1	9709-126134313-126159312-VCS-VCU-259-VER-BR-14-981-01012017-31122017-0	
		[tCO ₂]	[tCO ₂]	[tCO ₂]	
Algeria	PHILIP MORRIS ALGERIA SARL			349	349
Aruba	Superior Tobacco Co N.V.			40	40
Belgium	Philip Morris Benelux B.V.			755	755
Canada	ROTHMANS, BENSON & HEDGES INC.			1,878	1,878
China	Philip Morris (China) Management Co. Ltd.			67	67
China	Philip Morris Electronics (Shenzhen) Ltd.			118	118
Colombia	Compania Colombiana de Tabaco S.A.S.			743	743

Croatia	PHILIP MORRIS ZAGREB, D.O.O. ZA VANJSKU I UNUTARNJU TRGOVINU			246	246
Curaçao	SUPERIOR TOBACCO COMPANY CURACAO N.V.			83	83
Cyprus	PHILIP MORRIS CYPRUS LTD			67	67
Czech Republic	PHILIP MORRIS CR a.s.			1,033	1,033
Dominican Republic	PHILIP MORRIS DOMINICANA, S.A.			935	935
Ecuador	Industrias del Tabaco, Alimentos y Bebidas S.A. ITABSA			70	70
Ecuador	Proveedora Ecuatoriana S.A. PROESA			496	496
El Salvador	Philip Morris El Salvador Sociedad Anonima de Capital Variable			57	57
Estonia	Philip Morris Eesti Osauhing			38	38
Guatemala	Tabacalera Centroamericana Sociedad Anonima			196	196
Hong Kong	Philip Morris Travel Retail Hong Kong Limited			11	11
Hong Kong incl Macau	Philip Morris Asia Limited			235	235
Jamaica & TT	Philip Morris T & T Limited		10		10
Latvia	SIA Philip Morris Latvia			38	38
Lithuania	UAB Philip Morris Baltic			167	167
Luxembourg	Philip Morris Luxembourg S.A.R.L.			22	22
Mexico	Philip Morris Mexico Productos y Servicios, S de R.L de C.V		1,806		1,806
Mexico	Philip Morris Mexico S.A de C.V.		837		837
Morocco	PHILIP MORRIS MAGHREB SARL			318	318
Netherlands	PHILIP MORRIS INVESTMENTS B.V.			551	551
Nicaragua	Philip Morris Nicaragua Sociedad Anonima			36	36
Panama	PHILIP MORRIS PANAMA SOCIEDAD EN COMANDITA POR ACCIONES		48		48
Peru	Philip Morris Peru, Sociedad Anónima		42		42
Philippines	PMFTC INC.			11,245	11,245
Philippines	PMI Business Solutions (Philippines) Inc.		284		284
Romania	Philip Morris Trading S.R.L.		637		637
Singapore	Philip Morris Singapore Pte. Ltd.		175		175

Slovenia	Philip Morris Ljubljana, storitveno podjetje, d.o.o.		110		110
Switzerland	PHILIP MORRIS FINANCE SA		15		15
Switzerland	Philip Morris International IT Service Center Sarl		686		686
Switzerland	Philip Morris International Services Sarl	3			3
Switzerland	PHILIP MORRIS PRODUCTS S.A.		751	8	759
Switzerland	PHILIP MORRIS SWITZERLAND SARL		830		830
Switzerland	Philip Morris World Trade S.a r.l.		81		81
Taiwan	Philip Morris Taiwan S.A.		211		211
Tunisia	Philip Morris North Africa SARL		135		135
Venezuela	C.A. TABACALERA NACIONAL (CATANA)		15		15
TOTAL		3	6,673	19,802	26,478
% of TOTAL		0.01	25.20	74.79	100.00

Table 5.2 - Markets Cluster 2 offsetting projects retirement allocations

5.3 Amount of credits purchased

Credits have been purchased by PMI, for Cluster 2, for the period covering 1st of January 2023 – 31st December 2023.

The amount of credits purchased is **26,478 tonnes of CO₂ equivalent***, it is composed by two contributions:

- 25,683 tonnes of CO₂ equivalent (scope 1 and 2), amount evaluated for the first application period
- 771 tonnes of CO₂ equivalent, that represent the overrate of 3% of the whole carbon footprint to cover all the exclusions (Annex C) and precludes underestimation.

** Note that rounding each legal entity up to nearest ton increased the total to 26,478 tonnes of CO₂ equivalent.*

We can reasonably assume that the emissions from Market Cluster 2 entities are covered by these credits.

Emissions are split as per the following between the following legal entities:

Country	Legal Entity(ies)	Scope 1 [tCO ₂ e]	Scope 2 (market- based) [tCO ₂ e]	Total Scope 1 and 2 (market- based) [tCO ₂ e]	3% Overrate [tCO ₂ e]	Total CO ₂ to Compensated (round up) [tCO ₂ e]
Algeria	Philip Morris Algeria SARL	311.4	27.2	338.6	10.2	349.0
Aruba	Superior Tobacco Co N.V.	13.3	25.0	38.3	1.1	40.0
Belgium	Philip Morris Benelux B.V.	709.6	23.2	732.8	22.0	755.0
Canada	Rothmans, Benson & Hedges Inc.	1,445.8	376.6	1,822.4	54.7	1,878.0
China	Philip Morris (China) Management Co. Ltd.	35.1	29.3	64.4	1.9	67.0
China	Philip Morris Electronics (Shenzhen) Ltd.	0.0	113.8	113.8	3.4	118.0
Colombia	Compania Colombiana de Tabaco S.A.S.	550.2	171.0	721.3	21.6	743.0
Croatia	PHILIP MORRIS ZAGREB, D.O.O. ZA VANJSKU I UNUTARNJU TRGOVINU	237.5	0.8	238.3	7.1	246.0
Curaçao	Superior Tobacco Company Curacao N.V.	27.7	52.3	80.0	2.4	83.0
Cyprus	Philip Morris Cyprus Ltd	42.1	22.7	64.8	1.9	67.0
Czech Republic	Philip Morris CR a.s.	867.8	134.2	1,002.0	30.1	1,033.0
Dominican Republic	PHILIP MORRIS DOMINICANA, S.A.	680.8	226.3	907.1	27.2	935.0
Ecuador	Industrias del Tabaco, Alimentos y Bebidas S.A. ITABSA	53.5	14.2	67.7	2.0	70.0
Ecuador	Proveedora Ecuatoriana S.A. PROESA	457.8	22.8	480.6	14.4	496.0
El Salvador	Philip Morris El Salvador Sociedad Anonima de Capital Variable	53.9	0.9	54.8	1.6	57.0
Estonia	Philip Morris Eesti Osauhing	16.8	19.3	36.1	1.1	38.0
Guatemala	Tabacalera Centroamericana Sociedad Anonima	171.1	19.1	190.2	5.7	196.0
Hong Kong	Philip Morris Travel Retail Hong Kong Limited	0.0	10.0	10.0	0.3	11.0
Hong Kong incl Macau	Philip Morris Asia Limited	10.8	217.2	228.1	6.8	235.0
Jamaica & TT	Philip Morris T & T Limited	4.2	5.0	9.2	0.3	10.0
Latvia	SIA Philip Morris Latvia	21.4	14.5	35.9	1.1	38.0

Lithuania	UAB Philip Morris Baltic	130.9	30.7	161.6	4.8	167.0
Luxembourg	Philip Morris Luxembourg S.A.R.L.	20.5	0.5	21.0	0.6	22.0
Mexico	Philip Morris Mexico Productos y Servicios, S de R.L de C.V	1,681.8	71.0	1,752.8	52.6	1,806.0
Mexico	Philip Morris Mexico S.A de C.V.	296.5	515.5	811.9	24.4	837.0
Morocco	PHILIP MORRIS MAGHREB SARL	265.5	43.0	308.5	9.3	318.0
Netherlands	Philip Morris Investments B.V.	515.3	19.0	534.3	16.0	551.0
Nicaragua	Philip Morris Nicaragua Sociedad Anonima	33.1	1.4	34.4	1.0	36.0
Panama	PHILIP MORRIS PANAMA SOCIEDAD EN COMANDITA POR ACCIONES	42.6	3.8	46.3	1.4	48.0
Peru	Philip Morris Peru, Sociedad Anónima	38.6	1.8	40.3	1.2	42.0
Philippines	PMFTC INC.	10,891.2	25.6	10,916.8	327.5	11,245.0
Philippines	PMI Business Solutions (Philippines) Inc.	242.8	32.1	274.9	8.2	284.0
Romania	Philip Morris Trading S.R.L.	556.8	61.5	618.3	18.5	637.0
Singapore	Philip Morris Singapore Pte. Ltd.	59.8	109.7	169.5	5.1	175.0
Slovenia	Philip Morris Ljubljana, storitveno podjetje, d.o.o.	80.7	25.3	106.1	3.2	110.0
Switzerland	Philip Morris Finance SA	14.0	0.0	14.0	0.4	15.0
Switzerland	Philip Morris International IT Service Center Sarl	665.5	0.0	665.5	20.0	686.0
Switzerland	Philip Morris International Services Sarl	2.8	0.0	2.8	0.1	3.0
Switzerland	Philip Morris Products S.A.	736.6	0.0	736.6	22.1	759.0
Switzerland	Philip Morris Switzerland Sarl	802.7	3.0	805.7	24.2	830.0
Switzerland	Philip Morris World Trade S.a r.l.	77.7	0.0	77.7	2.3	81.0
Taiwan	Philip Morris Taiwan S.A.	90.0	114.2	204.2	6.1	211.0
Tunisia	Philip Morris North Africa SARL	100.1	30.1	130.2	3.9	135.0
Venezuela	C.A. TABACALERA NACIONAL (CATANA)	5.4	8.3	13.7	0.4	15.0
Cluster 2 Total		23,061.5	2,622.0	25,683.4	770.5	26,478.0
% of Total		89.8	10.2	100.0		

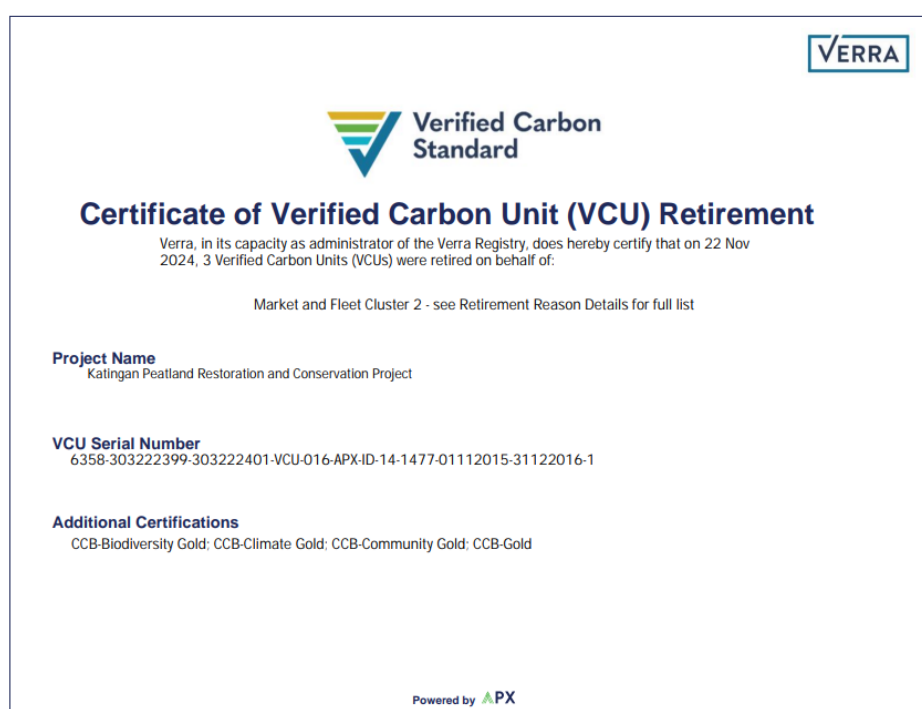
Table 5.3 – Emissions to be offset by legal entity

The Gold Standard and VERRA guarantee that the offsets **generated represent genuine, additional GHG** emission reductions. The projects are technically designed so as to enable the quantification of a specific number of emissions reductions/removals the carbon credits expected from each farm/forest. The Gold Standard and VERRA label also guarantee that the projects involved in delivering credits meet the criteria of additionality, permanence, leakage and double counting.


It also guarantees that the units were verified by an independent third-party and that the credits were only issued after the emission reduction has taken place.


The following certificates have been retired in accordance with *Table 5.4 - Markets Cluster 3 offsetting projects retirement allocations* to offset unavoidable emissions, year 2023.

Originating project name: Kantingan Peatland Restoration and Conservation Project
Quantity of retired credits: 3
Unit Type: VCU
Serial number: 6358-303209602-303222401-VCU-016-APX-ID-14-1477-01112015-31122016-1
Retirement Date: 22 November, 2024
Project ID: VCS 1477
Project type: Agriculture Forestry and Other Land Use
Country: Indonesia



Originating project name: Kantingan Peatland Restoration and Conservation Project
Quantity of retired credits: 6,673
Unit Type: VCU
Serial number: 6359-307878967-307896966-VCU-016-APX-ID-14-1477-01012017-31122017-1
Retirement Date: 22 November, 2024
Project ID: VCS 1477
Project type: Agriculture Forestry and Other Land Use
Country: Indonesia





Certificate of Verified Carbon Unit (VCU) Retirement


Verra, in its capacity as administrator of the Verra Registry, does hereby certify that on 22 Nov 2024, 6,673 Verified Carbon Units (VCUs) were retired on behalf of:

Market and Fleet Cluster 2 - see Retirement Reason Details for full list

Project Name
Katingan Peatland Restoration and Conservation Project

VCU Serial Number
6359-307882658-307889330-VCU-016-APX-ID-14-1477-01012017-31122017-1

Additional Certifications
CCB-Biodiversity Gold; CCB-Climate Gold; CCB-Community Gold; CCB-Gold

Powered by  APX

Originating project name: Pacajai REDD+ Project
Quantity of retired credits: 19,802
Unit Type: VCU
Serial number: 9709-126134313-126159312-VCS-VCU-259-VER-BR-14-981-01012017-31122017-0
Retirement Date: 22 November, 2024
Project ID: VCS 981
Project type: Agriculture Forestry and Other Land Use
Country: Brazil



5.4 Compensation program for the second application

For the second application period, PMI will cancel the volume of carbon credits required once the emission calculations are completed for that period. The volumes of credits required by PMI affiliates will be confirmed at later stage upon completion of the greenhouse gas inventory audit for this Application Period. The portfolio composition and share among projects will be determined based on the volume of credits.

6 Annex A – Carbon Neutral Assurance letter



Verification Statement Number:

CCP267920.PMI.2023.Market Cluster 2 V1 2024.12.09

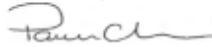
The Carbon Neutrality Declaration as presented in its Qualifying Explanatory Statement (QES), for the application period 01/01/2023 – 31/12/2023 of Philip Morris International Market Entities Cluster 2, as defined in the scope set this opinion and comprising market related activities of:

Country	Legal Entity	Country	Legal Entity	Country	Legal Entity
Algeria	Philip Morris Algeria SARL	Ecuador	Proveedora Ecuatoriana S.A. PROESA	Philippines	PMFTC INC.
Aruba	Superior Tobacco Co N.V.	El Salvador	Philip Morris El Salvador Sociedad Anonima de Capital Variable	Philippines	PMI Business Solutions (Philippines) Inc.
Belgium	Philip Morris Benelux B.V.	Estonia	Philip Morris Eesti Osuühing	Romania	Philip Morris Trading S.R.L.
Canada	Rothmans, Benson & Hedges Inc.	Guatemala	Tabacalera Centroamericana Sociedad Anonima	Singapore	Philip Morris Singapore Pte. Ltd.
China	Philip Morris (China) Management Co. Ltd.	Hong Kong	Philip Morris Travel Retail Hong Kong Limited	Slovenia	Philip Morris Ljubljana, storitveno podjetje, d.o.o.
China	Philip Morris Electronics (Shenzhen) Ltd.	Hong Kong incl Macau	Philip Morris Asia Limited	Switzerland	Philip Morris Finance SA
Colombia	Compania Colombiana de Tabaco S.A.S.	Jamaica & TT	Philip Morris T & T Limited	Switzerland	Philip Morris International IT Service Center Sarl
Croatia	PHILIP MORRIS ZAGREB, D.O.O. ZA VANJSKU I UNUTARNJU TRGOVINU	Latvia	SIA Philip Morris Latvia	Switzerland	Philip Morris International Services Sarl
Curaçao	Superior Tobacco Company Curaçao N.V.	Lithuania	UAB Philip Morris Baltic	Switzerland	Philip Morris Products S.A.
Cyprus	Philip Morris Cyprus Ltd	Luxembourg	Philip Morris Luxembourg S.A.R.L.	Switzerland	Philip Morris Switzerland Sarl
Czech Republic	Philip Morris CR a.s.	Mexico	Philip Morris Mexico Productos y Servicios, S de RL de C.V	Switzerland	Philip Morris World Trade S.a r.l.
Dominican Republic	PHILIP MORRIS DOMINICANA, S.A.	Mexico	Philip Morris Mexico S.A de C.V.	Taiwan	Philip Morris Taiwan S.A.
Ecuador	Industrias del Tabaco, Alimentos y Bebidas S.A. ITABSA	Netherlands	Philip Morris Investments B.V.	Tunisia	Philip Morris North Africa SARL
Morocco	PHILIP MORRIS MAGHREB SARL	Panama	PHILIP MORRIS PANAMA SOCIEDAD EN COMANDITA POR ACCIONES	Venezuela	C.A. TABACALERA NACIONAL (CATANA)
Nicaragua	Philip Morris Nicaragua Sociedad Anonima	Peru	Philip Morris Peru, Sociedad Anónima		

has been verified by SGS United Kingdom Limited as conforming to the requirements of PAS 2060:2014: Specification for the demonstration of carbon neutrality (PAS 2060).

Lead Assessor: Lisa Gibson, Technical Reviewer: Andrew James Collins

Authorised by:



Pamela Chadwick, Business Manager, SGS United Kingdom Ltd.

Verification Statement Date: 9th December 2024

This Statement is not valid without the full verification scope, objectives, criteria and conclusion available on pages 2 to 3 of this Statement.

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Schedule Accompanying Greenhouse Gas Verification Statement CCP267920.PMI.2023.Market Cluster 2 V1 2024.12.09

Brief Description of Verification Process

SGS has been contracted by Philip Morris International (PMI) for the verification of their Carbon Neutrality Declaration as presented in the Qualifying Explanatory Statement (QES) for Market Entities Cluster 2, for the application period 01/01/2023 – 31/12/2023, against the requirements of PAS 2060:2014: Specification for the demonstration of carbon neutrality (PAS 2060).

Roles and Responsibilities

The management of Philip Morris International responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information, preparation of reports, QES, purchase and retirement of carbon offsets.

It is SGS' responsibility to express an independent opinion on the Carbon Neutrality Declaration as provided by the Client for the application period 01/01/2023 – 31/12/2023.

SGS conducted a third-party verification following the requirements of ISO 14064-3: 2019 of the provided Carbon Neutral Declaration and supporting QES during the period June to December 2024. The assessment was conducted via desk review. The verification was based on the verification scope, objectives and criteria as agreed between Philip Morris International and SGS.

Objectives:

The purpose of the verification exercise was, by review of objective evidence, to independently review and confirm:

- That the Carbon Neutrality Declaration and QES conform to the requirements of PAS 2060
- That the emissions data reported in the QES are accurate, complete, consistent, transparent and free of material error or omission and have been determined in accordance with .WRI/WBCSD GHG Protocol, Corporate Accounting and Reporting Standard
- That evidence is available to support information reported within the QES including carbon offset purchases and retirements.

Level of Assurance

The level of assurance agreed is reasonable.

Scope

This engagement covers verification of:

- The organizational boundary was established following the operational control consolidation approach for each of the market affiliates.
- Title or description of activities: Emissions for market affiliates office, warehouse, fleet and retail operations
- Scope 1 & 2 emissions only
- Location/boundary of the activities: market activities excluding manufacturing operations, as per list below
- First application period: Calendar Year 2023

Intended user of the verification statement: internal, customers, general public.



Country	Legal Entity	Country	Legal Entity	Country	Legal Entity
Algeria	Philip Morris Algeria SARL	Ecuador	Provedora Ecuatoriana S.A. PROESA	Philippines	PMFTC INC.
Aruba	Superior Tobacco Co N.V.	El Salvador	Philip Morris El Salvador Sociedad Anonima de Capital Variable	Philippines	PMI Business Solutions (Philippines) Inc.
Belgium	Philip Morris Benelux B.V.	Estonia	Philip Morris Eesti Osuühing	Romania	Philip Morris Trading S.R.L.
Canada	Rothmans, Benson & Hedges Inc.	Guatemala	Tabacalera Centroamericana Sociedad Anonima	Singapore	Philip Morris Singapore Pte. Ltd.
China	Philip Morris (China) Management Co. Ltd.	Hong Kong	Philip Morris Travel Retail Hong Kong Limited	Slovenia	Philip Morris Ljubljana, storitveno podjetje, d.o.o.
China	Philip Morris Electronics (Shenzhen) Ltd.	Hong Kong incl Macau	Philip Morris Asia Limited	Switzerland	Philip Morris Finance SA
Colombia	Compania Colombiana de Tabaco S.A.S.	Jamaica & TT	Philip Morris T & T Limited	Switzerland	Philip Morris International IT Service Center Sarl
Croatia	PHILIP MORRIS ZAGREB, D.O.O. ZA VANJSKU I UNUTARNJU TRGOVINU	Latvia	SIA Philip Morris Latvia	Switzerland	Philip Morris International Services Sarl
Curaçao	Superior Tobacco Company Curaçao N.V.	Lithuania	UAB Philip Morris Baltic	Switzerland	Philip Morris Products S.A.
Cyprus	Philip Morris Cyprus Ltd	Luxembourg	Philip Morris Luxembourg S.A.R.L.	Switzerland	Philip Morris Switzerland Sarl
Czech Republic	Philip Morris CR a.s.	Mexico	Philip Morris Mexico Productos y Servicios, S de RL de C.V	Switzerland	Philip Morris World Trade S.a r.l.
Dominican Republic	PHILIP MORRIS DOMINICANA, S.A.	Mexico	Philip Morris Mexico S.A de C.V.	Taiwan	Philip Morris Taiwan S.A.
Ecuador	Industrias del Tabaco, Alimentos y Bebidas S.A. ITABSA	Netherlands	Philip Morris Investments B.V.	Tunisia	Philip Morris North Africa SARL
Morocco	PHILIP MORRIS MAGHREB SARL	Panama	PHILIP MORRIS PANAMA SOCIEDAD EN COMANDITA POR ACCIONES	Venezuela	C.A. TABACALERA NACIONAL (CATANA)
Nicaragua	Philip Morris Nicaragua Sociedad Anonima	Peru	Philip Morris Peru, Sociedad Anónima		

Materiality

The materiality required of the verification was considered by SGS to be below 5%.

We planned and performed our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance that the CO₂ equivalent emissions, carbon neutrality declaration and QES for the first period 01/01/2023 – 31/12/2023 are fairly stated.

SGS' approach is risk-based, drawing on an understanding of the risks associated with compiling and reporting GHG emission information and the controls in place to mitigate these risks. Our examination included assessment, on a sample basis, of evidence relevant to the voluntary reporting of emission information and carbon neutrality.

Conclusion

Philip Morris International provided their Carbon Neutrality Declaration based on the criteria outlined above. The Carbon Neutrality Declaration and QES for the application period 01/01/2023 – 31/12/2023 are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

SGS concludes with reasonable assurance that the presented Carbon Neutrality Declaration and supporting QES is materially correct and is a fair representation of the CO₂ equivalent data and information and conforms to the requirements of PAS2060 2014.

7 Annex B – Qualifying Explanatory Statements (QES) checklist



QES%20Document.xls

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8 Annex C – Scope 1, 2 and 3 emissions inclusion and exclusion

Included and excluded emission sources related to the subject(s) are presented below, together with explanation for exclusions.

Emission source	Description	Inclusion exclusion	Justification of Exclusion
Stationary combustion	Combustion of fuels in boilers and furnaces for the generation of heat and steam, used for production processes and heating of buildings	Included	-
Mobile combustion sources	Transportation of employees and goods with cars under the affiliates' control.	Included	-
Process emissions	Emissions occurring during the production process (DIET)	N/A	-
Fugitive emissions	Refrigerant gases losses	Excluded	Identified as below materiality threshold within the GHG inventory
Electricity consumption	Generation of purchased electricity	Included	-
Heat, steam and/or cold consumption	Purchase of heat, steam or cold energy not produced at operation site.	Included	-
Scope 3	All other indirect emissions	Excluded	Out of scope

Table 8.1 - Inclusions and exclusions

9 Annex D – Uncertainty calculation

Uncertainties around the quantification of the carbon footprint have been assessed throughout the assessment following the guidelines released by ISO and available in the “GHG Protocol’s Measurement and Estimation Uncertainty of GHG Emissions tool” (supporting worksheet file “Uncertainty_Calculation_Tool”)⁵; since the uncertainties are not known for all the parameters (activity data and emission factors), the IPCC Guideline for National Greenhouse Inventories Reporting Instructions (1996) was used:

- Activity data: 7% (IPCC)
- Emission factor: 7% (IPCC)

All country information can be accessed in the below file attached:



2024 PMI Markets
Cluster 2 Uncertain

Overall outcome of the uncertainty calculation (from attached file)

Overall											
Source Description	Value	Unit	Uncertainty	kg GHG/MJ	Uncertainty	Value	Unit	Uncertainty	Quality	Value	Unit
LPG (Energy) [MJ]	0.00	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	0.00	kg GHG/MJ	+/- 3.3%	Good	0.00	kg GHG/MJ
Natural Gas (Energy) [MJ]	34,477,874.00	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	1,941,022.12	kg GHG/MJ	+/- 3.3%	Good	192.16	kg GHG/MJ
Diesel or Fuel oil Light Oil (Energy) [MJ]	1,055,759.63	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	155,210.88	kg GHG/MJ	+/- 3.3%	Good	13.39	kg GHG/MJ
Fuel oil - H (Energy) [MJ]	0.00	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	0.00	kg GHG/MJ	+/- 3.3%	Good	0.00	kg GHG/MJ
Hard Coal (Energy) [MJ]	0.00	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	0.00	kg GHG/MJ	+/- 3.3%	Good	0.00	kg GHG/MJ
Biomass (Energy) [MJ]	308,842.40	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	303.78	kg GHG/MJ	+/- 3.3%	Good	0.05	kg GHG/MJ
Distillate Steam (Energy) [MJ]	0.00	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	0.00	kg GHG/MJ	+/- 3.3%	Good	0.00	kg GHG/MJ
Distillate Heating (Energy) [MJ]	883,800.04	MJ	+/- 7.0%	kg GHG/MJ	+/- 7.0%	44,410.10	kg GHG/MJ	+/- 3.3%	Good	4.40	kg GHG/MJ
Purchased Renewable Electricity (Energy) [kWh]	21,754,063.63	kWh	+/- 7.0%	kg CO2/kWh	+/- 7.0%	0.00	kg CO2/kWh	+/- 3.3%	Good	0.00	kg CO2/kWh
Net Electricity (Energy) [kWh]	3,189,114.11	kWh	+/- 7.0%	kg CO2/kWh	+/- 7.0%	2,577,540.07	kg CO2/kWh	+/- 3.3%	Good	255.16	kg CO2/kWh
Vehicles Petrol Consumption [L]	3,327,803.43	L	+/- 7.0%	kg CO2/L	+/- 7.0%	8,343,113.47	kg CO2/L	+/- 3.3%	Good	826.59	kg CO2/L
Vehicles Diesel Consumption [L]	5,014,916.75	L	+/- 7.0%	kg CO2/L	+/- 7.0%	12,557,788.73	kg CO2/L	+/- 3.3%	Good	1,247.12	kg CO2/L
Vehicles Biodiesel Consumption [L]	0.00	L	+/- 7.0%	kg CO2/L	+/- 7.0%	0.00	kg CO2/L	+/- 3.3%	Good	0.00	kg CO2/L
Vehicles Bioethanol Consumption [L]	0.00	L	+/- 7.0%	kg CO2/L	+/- 7.0%	0.00	kg CO2/L	+/- 3.3%	Good	0.00	kg CO2/L
Vehicles Natural Gas Consumption [L]	35,625.00	L	+/- 7.0%	kg CO2/L	+/- 7.0%	42,791.24	kg CO2/L	+/- 3.3%	Good	4.24	kg CO2/L
Sum CO ₂ emissions (M)						25,683,428.33	kg CO2	+/- 3.3%	Good	2,568.34	kg CO2

Table 9.1 - Uncertainty calculations

Uncertainties due to emission Factors and Activity Data				
1	2	3	4	5
Gas	Source category	Emission factor	Activity data	Overall uncertainty
CO ₂	Energy	7%	7%	10%
CO ₂	Industrial Processes	7%	7%	10%
CO ₂	Land Use Change and Forestry	33%	50%	60%
CH ₄	Biomass Burning	50%	50%	100%
CH ₄	Oil and Nat. Gas Activities	55%	20%	60%
CH ₄	Rice cultivation	$\frac{3}{4}$	$\frac{1}{4}$	1
CH ₄	Waste	$\frac{2}{3}$	$\frac{1}{3}$	1
CH ₄	Animals	25%	10%	20%
CH ₄	Animal waste	20%	10%	20%
N ₂ O	Industrial Processes	35%	35%	50%
N ₂ O	Agricultural Soils			2 orders of magnitude
N ₂ O	Biomass Burning			100%

Note: Individual uncertainties that appear to be greater than ± 60% are not shown. Instead judgement as to the relative importance of emissions factor and activity data uncertainties are shown as fractions which sum to one

Source: Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories: Reporting Instructions

Table 9.2 - IPCC uncertainty data

⁵ <https://ghgprotocol.org/calculation-tools>



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