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DECLARATION OF CARBON NEUTRALITY

MANUFACTURING ENTITIES CLUSTER1

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Table of contents

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Table of Figures:

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0 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). If provided with any information affecting the validity of the following statements, this document will be updated accordingly to reflect the Cluster 1 (group of affiliates) current status towards carbon neutrality.
This report is publicly available on a dedicated website:

https://www.pmi.com/resources/docs/default-source/carbon-neutrality-declarations/240802_cluster-1-carbon-neutrality-declaration.pdf?sfvrsn=8a91a2c9_2

In 2022, due to continuous growth of our community of factories that are joining the carbon neutral declaration process, we decided to cluster them under the same declaration of commitment and achievement. This Cluster will be continued for 2023-emissions year declaration.

This is the second declaration of achievement of carbon neutrality for the following list of factories that we will call in this document "Cluster 1", as per PAS 2060:2014 standard.

List of factories:

Reporting entity	Current Legal Entity
PT (TABAQUEIRA)	Tabaqueira Empresa Industrial de Tabacos S.A.
CH (PMP SA Neuch)	Philip Morris Products SA
LT (Klaipeda)	UAB Philip Morris Lietuva
CZ (Kutna Hora)	Philip Morris CR, a.s.
AR LF (MASSALIN Lrm)	MASSALIN PARTICULARES SRL, Lerma
BR (Santa Cruz)	Philip Morris Brasil Industria e Comercio Ltda.
GR (PAPASTRATOS)	Papastratos Cigarette Manufacturing Company, S.A.
SN (Dakar)	Philip Morris Manufacturing Senegal S.A.R.L.
PK LF (PMPK Mard)	Philip Morris (Pakistan) Limited, Mardan Factory
ID (SAMP Sukorejo)	PT Hanjaya Mandala Sampoerna, Tbk. Sukorejo Plant
ID (PTSIS Sukorejo)	PT Sampoerna Indonesia Sembilan, Sukorejo Pasuruan
ID SKT (Malang SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Malang
ID SKT (Rungkut 1 SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Rungkut 1
ID SKT (Rungkut 2 SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Rungkut 2
ID SKT (Kraksaan SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Kraksaan
ID (PTPMI Karawang)	PT Philip Morris Indonesia Karawang International, Karawang
ID (SAMP Karawang)	PT Hanjaya Mandala Sampoerna, Tbk., Karawang Plant
AR (MASSALIN Merlo)	MASSALIN PARTICULARES S.R.L., Merlo
RS (DIN)	Philip Morris Operations a.d. Nis
JO (Amman)	Philip Morris Investments B.V. Jordan
RO (Bucharest)	Philip Morris Romania SRL

Carbon Neutrality of the Scope 1 and Scope 2 emissions under the direct operational control of Cluster 1, achieved by Cluster 1 in accordance with PAS2060:2014 at **31st December 2023** with a commitment to maintain to **31st December 2024** for the period commencing **1st January 2023.** The achievement of Cluster 1 facilities' Carbon Neutrality has been certified by SGS United Kingdom Limited.

Certification letter from SGS can be found in Annex A.

1 Introduction

This document forms the Qualifying Explanatory Statement (QES) to demonstrate that Philip Morris International (PMI) "Cluster 1" group of manufacturing affiliates has achieved carbon neutrality for the below mentioned manufacturing processes 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: affiliates and fleet 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 Cluster 1 achievement of carbon neutrality for this application period (under PAS 2060:2014) and commitment on carbon neutrality up to 2025 (3 years, from 2022 the reference year) in compliance with PAS 2060:2014 standard.

PMI affiliates grouped in Cluster 1 have also set up a Carbon Management Plan to reduce the GHG emissions associated to the manufacturing processes in order to demonstrate commitment to being carbon neutral in accordance with PAS 2060:2014 standard.

1.1 General information

PAS 2060 Information requirement	Information as it relates to PMI Cluster 1 affiliates
Entities making PAS 2060 declarations	PMI Factories Cluster 1, including factories as per mentioned table in paragraph 0.
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)	Gianluca Capodimonte
Subject of PAS 2060 declaration	Carbon Neutrality of the Scope 1 and 2 emissions under the direct operational control of PMI Cluster 1 Factories (complete list available in Annex C)
Function of subject	Factories and stemmeries manufacturing conventional cigarettes and Smoke Free Products for PMI and its brands.
Activities required for subjects to fulfil its function	The activities required within the manufacturing process are (note that not all the processes listed are present in all the Cluster 1 factories):

	• Manufacture of Tobacco Related Products; • Flavour & Casing Processing; • Improved Stem Processing; • Cut Filler Processing; • Filter Processing; • Machine Cigarette Processing; • Quality Control Laboratory Activities; • Warehousing Activities; • Stemmery Processes; • Print Shop Activities; • Manufacturing of Reduced Risk Products; • Mentholated Inner Liner Processing; • Other Tobacco Products Processing; • Cast Leaf Processing; • Manufacturing of Heated Tobacco sticks; • Manufacture of Hand-Rolled Cigarettes; • Clove Processing; • Reconstituted Tobacco & Clove Processing; • Expanded Tobacco Processing; • Basic Blend Strips Processing;
Rationale for selection of the subjects	PMI's ambition is to be carbon neutral for all of its direct operations (factories, fleet and offices) by 2025. In this journey, all subjects (factories) 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	1st of January 2023
Achievement period	1st of January 2023– 31st of December 2023
Commitment period	1st of January 2024 – 31st of December 2025

Table 1.1 - General information

1.2 Scope

The **subject** for carbon neutrality is manufacturing entities grouped in the following Cluster 1 or group of entity.

Philip Morris International, Manufacturing entities grouped in Cluster 1:

Reporting entity	Production Type	Current Legal Entity
PT (TABAQUEIRA)	CC	Tabaqueira Empresa Industrial de Tabacos S.A.
CH (PMP SA Neuch)	CC	Philip Morris Products SA
LT (Klaipeda)	CC	UAB Philip Morris Lietuva
CZ (Kutna Hora)	CC	Philip Morris CR, a.s.
AR LF (MASSALIN Lrm)	CC	MASSALIN PARTICULARES SRL, Lerma
BR (Santa Cruz)	CC	Philip Morris Brasil Industria e Comercio Ltda.
GR (PAPASTRATOS)	SFP (RRP)	Papastratos Cigarette Manufacturing Company, S.A.
SN (Dakar)	CC	Philip Morris Manufacturing Senegal S.A.R.L.
PK LF (PMPK Mard)	CC	Philip Morris (Pakistan) Limited, Mardan Factory
ID (SAMP Sukorejo)	CC	PT Hanjaya Mandala Sampoerna, Tbk. Sukorejo Plant
ID (PTSIS Sukorejo)	CC	PT Sampoerna Indonesia Sembilan, Sukorejo Pasuruan
ID SKT (Malang SAMPOERNA)	CC	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Malang
ID SKT (Rungkut 1 SAMPOERNA)	CC	PT Hanjaya Mandala Sampoerna, Tbk. -SKT Plant Rungkut 1
ID SKT (Rungkut 2 SAMPOERNA)	CC	PT Hanjaya Mandala Sampoerna, Tbk., SKT Plant Rungkut 2
ID SKT (Kraksaan SAMPOERNA)	CC	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Kraksaan
ID (PTPMI Karawang)	CC	PT Philip Morris Indonesia Karawang International, Karawang
ID (SAMP Karawang)	CC	PT Hanjaya Mandala Sampoerna, Tbk., Karawang Plant
AR (MASSALIN Merlo)	CC	MASSALIN PARTICULARES S.R.L., Merlo
RS (DIN)	CC	Philip Morris Operations a.d. Nis
JO (Amman)	CC	Philip Morris Investments B.V. Jordan
RO (Bucharest)	SFP (RRP)	Philip Morris Romania SRL

The main business activity is the manufacturing of conventional (CC means conventional cigarettes) and RRP/SFP (Smoke free products) products under PMI brands (as reported in Annex C).

In 2022, due to continuous growth of our community of factories that have been joining carbon neutral declaration process, we decided to cluster them under the same declaration of commitment and achievement.

Cluster 1 declaration includes *twenty-one* Manufacturing reporting entities (nineteen reporting entities are mainly defined as Conventional cigarettes sites and two reporting entities are mainly producing SFP/RRP).

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).

1.3 Boundaries of the subject

The system boundaries considered for the organizational carbon footprint of the subject are **all the activities** occurring **within the physical perimeter of the Cluster 1** and **under the affiliates 'control** including:

- The manufacturing plant
- The office(s) and/or warehouse(s) included within the perimeter
- The fleet under the affiliate's control

GHG emissions associated with Cluster 1 of manufacturing affiliates within the defined boundary from 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.

The data for this application period has been **verified by an independent third party**, SGS, who 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.

2 Quantification of carbon footprint

2.1 Emissions results

Reporting entity	RRP P1 Stick Production Volume [Mio Sticks]	Total Production (Mio Cigarettes Equivalent) [Mio Cig]	CO2 Scope 1 Emissions from DIET (GHG emissions) Expanded Tobacco [t GHG]	CO2 Scope 1 Fuels (GHG emissions) - Manufacturing [t GHG]	CO2 Scope 1 Emissions from DIET (GHG emissions) Expanded Tobacco – Certified Biogenic CO2 [t GHG]	Total CO2 (GHG emissions) - Manufacturing - Market based [t GHG]	Fleet Vehicles - Total CO2 scope1 (GHG Emissions) [t GHG]	Total CO2 (GHG emissions) - 2023 MARKET based
AR (MASSALIN Merlo)		18127.88		1990.04		1990.04	119.22	2109.26
AR LF (MASSALIN Lrm)		46,834.15		3,802.26		3,802.26	41.48	3,843.74
BR (Santa Cruz)		17602.63	1268.3	1095.99	0	2364.29	0.88	2365.17
CH (PMP SA Neuch)	1592.59	12364.7		947.87		947.87	0	947.87
CZ (Kutna Hora)		53674.27		3009.12		3009.12	73.25	3,082.37
GR (PAPASTRATOS)	21366.25	21366.25		12781.07		12781.07	47.77	12828.84
ID (PTPMI Karawang)		21080.8		804.53		804.53	8.86	813.39
ID (PTSIS Sukorejo)		443.41		22.01		22.01	0	22.01
ID (SAMP Karawang)	1618.508	27349.3		4973.77		4973.77	56.96	5030.73
ID (SAMP Sukorejo)		42729.53	0	6788.39	2,107.931	6,788.39	90.71	6,879.10
ID SKT (Kraksaan SAMPOERNA)		1508.45		0.84		0.84	16.4	17.24
ID SKT (Malang SAMPOERNA)		865.85		0.56		0.56	1.51	2.07
ID SKT (Rungkut 1 SAMPOERNA)		709.59		0.26		0.26	48.64	48.9
ID SKT (Rungkut 2 SAMPOERNA)		2049.49		0.47		0.47	10.98	11.45
JO (Amman)		3395.04		267.33		267.33	13.28	280.61
LT (Klaipeda)		32724.54		74.09		74.09	28.185	102.28
PK LF (PMPK Mard)		0		654.6		654.6	219.07	873.67
PT (TABAQUEIRA)		32154.9		3388.19		3388.19	50.94	3439.13
RO (Bucharest)	23912.95	25526.49		16207.37		16207.37	34.76	16242.13
RS (DIN)		55585.57		4203.94		4203.94	111.3	4315.24
SN (Dakar)		4004.91		309.57		309.57	26.36	335.93

The total GHG emissions in scope 1 and 2 of Philip Morris International Cluster 1 of manufacturing entities during the **year 2023** (second application period) represent a total of **63,591 tons of CO_2 equivalent**.

GHG scope	2023 GHG emissions [tCO_2eq]	2023 Scope contribution
CO_2 Scope 1 Fuels (GHG emissions) – Manufacturing [t GHG]	61321.9	96.4%
CO_2 Scope1 – Fleet emissions - Vehicles [t GHG]	1001.0	1.6%
CO_2 Scope 1 Emissions from DIET (GHG emissions) Expanded Tobacco [t GHG]	1268.3	2.0%
Sub Total [tCO_2eq]	**63,591**	100%

Table 2.1 – Cluster 1 GHG emissions overall results

Biogenic CO_2 for some DIET Expanded Tobacco Process (in Indonesia plant - ID SAMP Sukorejo) were accounted as zero as Biogenic CO_2 covered as per evidence in the Annex F.

1160 tons of CO_2eq related to **Natural gas in 2023** are covered by green gas certificates in **Lithuania (Klaipeda)** plant as per evidence provided in Annex F.

2.2 Methodology

Total GHG emissions associated with PMI affiliates in Cluster 1, 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 (CO_2),
- methane (CH_4),
- nitrous oxide (N_2O).

The inventory accounts for 100% of GHG emissions of business activities and operations in which PMI affiliates within Cluster 1 have direct operational control and the full authority to introduce and implement its operating policies.

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.

2.2.1.1 Scope 1

GHG emissions related to scope 1 come from direct emissions from sources owned or controlled by each of the affiliates within Cluster 1. In PMI context, scope 1 emissions are:

- Stationary combustion:
  - Natural gas
  - LPG, Propane and Butane
  - Diesel (fuel oil)
  - Heavy fuel oil
  - Petrol
  - Biomass
- Mobile combustion
  - Petrol
  - Diesel
  - Biodiesel
  - Bioethanol
  - Natural Gas (Compressed)

2.2.1.2 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 affiliates in Cluster 1. In PMI context, scope 2 emissions are:

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

2.2.1.3 Scope 3

GHG emissions related to scope 3 refer to all other indirect emissions as a consequence of the activities of affiliates in Cluster 1 that occur from sources not owned or controlled by each of the affiliates within Cluster 1 and are out of scope.

2.3 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 was used to quantify emissions. For scope 1 and 2, **exclusively primary data was used,** except for the calculation of emissions from fleet where secondary data was used only for UAB Philip Morris Lietuva, Philip Morris CR a.s. and Philip Morris Investments B.V. Jordan. For these three cases the fuel consumption and emissions have been determined by using the PMI available data for Fleet in the respective country. Taking the average fuel consumption per vehicle, this value has been multiplied by the number of vehicles in the factory. The total fuel consumption was then multiplied using DEFRA coefficient to determine the emissions.

1. Primary Data source related to all inputs and outputs corresponding to steps under the affiliates in Cluster 1 control were directly provided. This includes measured energy inputs for production.

2. Emission Factors were sourced from recognized databases (DEFRA and GHG protocol).

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

Source of data was reviewed by SGS through the GHG Protocol verification process and certification against the requirements of PAS 2060:2014.

2.4 Assumptions and estimations

All assumptions made to quantify the greenhouse gas emission of PMI affiliates in Cluster 1 were reviewed by SGS through the GHG inventory verification process. For scope 1 and 2, no assumptions were made. For fleet of the three reporting entities mentioned in 2.3 paragraph the fuel consumption and emissions have been determined by using the PMI available data for Fleet in the respective country taking the average fuel consumption per vehicle, this value has been multiplied by the number of per vehicles in the factory. The total fuel consumption is then multiplied using DEFRA coefficient to determine the emissions.

2.5 Exclusions

Annex C outlines all the inclusions and exclusions for GHG emissions. In order to ensure the coverage of any potential exclusions within the system boundary an additional 3% has been added to total Carbon Footprint to ensure the Carbon Neutrality program covers 100% of the GHG emissions.

2.6 Uncertainties

Generally, the use of secondary data throughout the assessment represents the main source of uncertainties of 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 GHG Protocol).
- No other secondary data has been used, except the fleet emission for four entities mentioned in paragraph 2.3.

Result of the uncertainty calculation is reported in Annex D.

2.7 Comparison with baseline period results

2023 is the second year for the PAS 2060:2014 certification for this Cluster 1 (Group of Manufacturing entities/factories as mentioned previously in paragraph 0).

SFP (RRP) products are converted to mio cigarette equivalent volumes using the relative efficiency in the 2022 year baseline period.

GHG scope	2022 GHG emissions [tCO2eq]	2023 GHG emissions [tCO2eq]
CO2 Scope 1 Fuels (GHG emissions) - Manufacturing [t GHG]	58018.4	61321.9
CO2 Scope1 - Fleet emissions -Vehicles [t GHG]	855.7	1001.0
CO2 Scope 1 Emissions from DIET (GHG emissions) Expanded Tobacco [t GHG]	1712.9	1268.3
Sub Total [tCO2eq]	**60,587**	**63,591**
3%	1818	1908
Total Carbon footprint [tCO2eq] with 3% (rounded up based on the decimals)	**62,405**	**65,499**

	Emission Year 2021	Emission Year 2022
SFP (RRP) Intensity (CO2 t/mio Cig eq)	0.639	0.688
CC Intensity	0.129	0.101
Conversion factors	4.97	**6.85**

	Year 2021	Year 2022	Year 2023
new Denominator	463,628	590,236	684,777

	Emission Year 2021	Emission Year 2022	Emission Year 2023
New Intensity per Cluster 1 (CO2 t/ new Denumerator)	0.132	0.103	0.093
Intensity reduction		**22%**	**10%**

3 Carbon Management Plan

The carbon reduction management plan considers a 2-year period (2024-2025) with the aim of reducing emissions and energy intensity. Performance against the target will be monitored annually to review whether anticipated reductions have been achieved.

In order to achieve the targeted reductions a series of project will be implemented.
Although PMI affiliates began their Carbon Management Program for Carbon Neutrality in 2020, energy saving measures have been implemented since 2010 within the production plants. In 2022, due to continuous growth of our community of factories that are joining the carbon neutral declaration process, we decided to cluster them under the same declaration.
The following paragraphs explain in detail implemented (paragraph 3.2) and planned (paragraph 3.3) projects, that are mainly related to production plant GHG emissions reductions.

3.1 PMI best practice

In 2023, 39 out of 41 reporting entities, purchased 100% of electricity came from renewable sources (electricity source for the affiliates in the carbon neutral factory certification are provided in annex F). Since 2017, we have gradually increased the uptake of green electricity (as showed in below table) and have a target to reach 100% green electricity purchases for all our affiliates by 2025. By investing in renewable energy electricity, PMI overall avoided emissions of **over 1,9 million ton of CO_2 equivalent.**

Indicator	2017	2018	2019	2020	2021	2022	2023	Total Value
CO_2 Scope 2 (GHG emissions) - Manufacturing - Market based [t GHG]	*217,563*	*149,757*	*111,508*	*65,289*	*41,157*	*27,909*	*16,186*	*629,368*
CO_2 Scope 2 (GHG emissions) - Manufacturing - Location based [t GHG]	*414,126*	*395,371*	*398,332*	*357,670*	*336,964*	*333,553*	*346,113*	*2,582,129*
Cumulative difference between Location based and Market based	*196,563*	*245,615*	*286,824*	*292,382*	*295,807*	*305,644*	*329,927*	***1,952,761***

Table 3.1 - Green electricity increase

3.2 Implemented GHG emissions reduction project repository

At PMI, emissions reduction project governance and budget approval come from two distinct streams: one driven by central functions and another by local teams.

Table 3.2 shows projects implemented in Cluster 1 in the last years, evaluated in 2023 Carbon Footprint assessment. For the ease of reference, the projects have been split by entity:

Table 3.2 - Implemented GHG emissions reduction projects.

Philip Morris SA - Neuchatel

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
Heat pump regulation optimization	Regulation optimization during winter period to increase the coverage rate against natural gas boiler	2022	Gas	60000
Primary insulation improvement	Insulate remaining steam pipes and valves to reduce heat losses	2023	Gas	8710

UAB Philip Morris Lietuva

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
ZOOM-HVAC (OPP-018796)	ZOOM-HVAC phase 2 Roll-out 2021	2023/2024	Electricity/Fuel	96000
Chilled water (OPP-017023)	Chilled water system upgrade - low dT control on AHU cooling coil (BMS dT control or simple stand-alone controller)	2023/2024	Electricity	21303
AHU flow (OPP-017176)	AHU flow rate optimization - Fresh air intake controlled based on actual dedusting system exhaust	2023/2024	Electricity	69911
Steam system thermal insulation upgrade (OPP-024774)	Additional installation on boilers, in production – thermal insulation addition.	2024	Fuel	32000
Chilled water system upgrade - chilled water system optimizer (OPP-021539)	Cloud technology-based controls of cooling system in factory	2024	Electricity	211000
Light replacement to LED in Primary & Secondary infeed zones (OPP-100567)	Light replacement to LED in Primary & Secondary infeed zones	2024	Electricity	31000

Philip Morris CR a.s.

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
Air compressors heat recovery, stage 1	Heat recovery from water cooled air compressors (water-to-air). Heat is used for preheating of fresh air inside AHU units.	2011/ 2023	Natural Gas	79444
VSD frequency drivers installation on HVAC fans	VSD technology brings possibility to control and decrease air flow and electricity consumption in HVAC systems.	2014/ 2023	Electricity	Green electricity
Heat Recovery from Dust Filters Bld.8	Heat recovery from dust collection (air-to-air). Heat used for preheating of fresh air inside AHU units.	2014/ 2023	Natural Gas	43176
FTD sleeping mode	Installation of improved control software for FTD (low consumption mode).	2014/ 2023	Natural Gas	44558
Water pumps - VSD frequency drivers	VSD technology used for control and decrease speed of water pumps and electricity consumption in heating and cooling systems.	2015/ 2023	Electricity	Green electricity
Adiabatic humidification Secondary	Installation of adiabatic humidification in Secondary HVAC instead of steam humidification.	2016/ 2023	Natural Gas	234879
Boiler K2 Condensing Heat Exchanger Ventos	Installation of additional heat exchanger (fume gas - to - water, condensing) on steam boiler in boiler house.	2017/ 2023	Natural Gas	103623
Ammonia Chiller KWS1 replacement	Heat pump (water-to-water) for heat recovery from water cooled air compressors to HVAC heating system.	2017/ 2023	Electricity	Green electricity
CA compressors heat recovery, stage 2	Old chiller replacement by new more efficient	2018/ 2023	Natural Gas	69082
Reverse Osmosis	Installation of reverse osmosis for boiler feeding water preparation in boiler house.	2019/ 2023	Natural Gas	34541
Ammonia Chiller KWS4 replacement by Turbocore compressor Trane	New highly efficient chiller.	2019/ 2023	Electricity	Green electricity
Heat pump stage 2 KWS4	Heat recovery by heat pump from KWS4 chiller condensation side.	2021/ 2023	Natural Gas	293103
Heat recovery - precooler for Economizer feed water	Installation of heat exchanger (water-to-water) to decrease water temperature before boiler economizer, improving efficiency.	2021/ 2023	Natural Gas	70603
Dust collection Heat Recovery (Heat Pump)	Heat recovery system returning waste heat from dust collection system back to heating grid.	2022/ 2023	Natural Gas	411824
HVAC EC fans instead of AC fans	HVAC EC fans instead of AC fans	2023	Electricity	Green electricity
HVAC Air Bypass	Modification of AHU equipment in Secondary HVAC.	2023	Electricity	Green electricity
Thermal insulation	Steam boilers and Steam grids thermal insulation	2023	Natural Gas	24775

Tabaqueira - Empresa Industrial de Tabacos, S.A. (Tabaqueira EIT, S.A.)

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
Energy Efficiency Plan 2010-2020	The energy efficiency plans throughout the years, funded by internal ESI program budget allowed Tabaqueira to address energy losses on transformation, transportation and consumption streams for utilities as well as increasing the self-produced green energy	2010 - 2023	Electricity/Gas	8973144
Steam Boilers Replacement	Install one new boiler with higher energy efficiency and dimensioned according to planned future needs (10 Ton/h) replacing the boilers nº2 and nº3.	2014/ 2023	Gas	533449
Renewable Electricity	Portuguese legislation requirement to have renewable electricity since 2014 – in 2019 was already 100% renewable and PMI energy efficiency/saving program	2023	Electricity	2168545
Shutdown Management	Implementation of a management system to optimize the operating periods of utility equipment, such as: AHUs and Steam Boilers.	2018/ 2013	Gas	237349
Primary Process Optimization	Reduction of steam consumption through the resizing of the production line and implementation of new technologies.	2020/ 2023	Gas	407000
Solar Park	Implemented photovoltaic solar plant, which covers an area of 5525 m^2 with a production capacity of 1MW, which guarantees the integration of 7% of electric energy for self-consumption. This solar park also powers 12 own charging stations for plug in vehicles in Tabaqueira fleet.	2021/ 2023	Electrical	Avoided CO2 emission 800 t per year
Efficient Lighting	Replacement of 80% of total factory indoor lighting by LED technology	2023	Electricity	194000
Active lighting control	Implementation of active lighting controls and scheduling with BMS integration	2023	Electricity	49000
Chiller 1 VFD	Implementation of a variable frequency drive on the chiller 1 compressor	2023	Electricity	16000
Dedusting filters Compressed Air Valves	Implementation of intelligent solenoid valves for dedusting filter cleaning	2023	Electricity	60000
Steam infrastructure insulation	Deployment of insulation jackets for steam network equipment	2023	Gas	149000
Turbocore Chiller	Replacement of 2 air cooled chillers by 1 water cooled turbocore chiller in cooling plant 2	2023	Electricity	150000

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
FTD O2 control	FTD burner equipped with O2 control	2023	Gas	6000
FTD Flue Gas heat exchanger	Heat recovery from the FTD exhaust gases to pre-heat the intake air	2023	Gas	22000
Chilled Water Optimizer	Machine learning algorithm to improve efficiency on chilled water system	2023	Electricity	100000
Venturi Steam Traps	Replacement of mechanical steam traps by venturi style ones	2023	Gas	269000
Steam Plant Pressure SP reduction	Sustained reduction of pressure setpoint for steam plant from 9,2bar to 8,5bar	2023	Gas	188000

Massalin Particulares S.R.L., Salta, Argentina

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Steam Pipe Insulation	Installation of 50 meters of 2" steam pipe insulation to avoid leakages.	2023	Gas	1372
Total change to LED lighted light	Total replacement of conventional lighting fixtures with LED technology in the Process Warehouse and the 13 Warehouses	2023	Electrical	17010

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Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Power Lab Shutdown Initiative	Optimization of the air conditioning system	2023	Electricity and Fuel	15085
Optimization of administrative spaces	Optimization of administrative spaces	2023	Electricity	1524
Baseload assessment and reduction - internal energy audits	Audits and daily control of KPIs via boards and PowerBi	2023	Electricity	2931
Baseload assessment and reduction - Primary energy centerlines	Audits and daily control of KPIs via Boards and PowerBi	2023	Electricity	4153
Baseload assessment and reduction - Secondary energy centerlines	Audits and daily control of KPIs via Boards and PowerBi	2023	Electricity	2935

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Baseload assessment and reduction - GEMT level 4 - Secondary Link-Up	Audits and daily control of KPIs via Boards and Power Bi	2023	Electricity	7285
Development E-Sight	Audits and daily control of KPIs via Boards and PowerBi	2023	Electricity	17484
Installation of timed valves in the rotary valves of the biomass boiler	Compressed air valve opening timing	2023	Electricity	3922
Shutdown of pressurizers on weekends	Shutdown of pressurizers on weekends	2023	Electricity	125
Diet Fan - Power Reduction	Engine Replacement	2023	Electricity	7173
Case 1 - Print Shop	Changing motors of the printer's fans	2023	Electricity	4154
Case 2 - Print Shop	Replacement of pneumatic screwdriver with electric screwdriver	2023	Electricity	123
Scraper Crusher	Study on scraper system for paper.	2023	Electricity	1694

Papastratos Cigarette Manufacturing Company, S.A.

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Air recirculation in QA building AHUs	Air recirculation instead of discharge, reduce energy consumption	2022 (as of September 22) /2023	Electricity/Gas	44000
Steam insulation improvements	Replace or install insulation on the steam network.	2023	Gas	180000

Philip Morris Manufacturing Senegal S.A.R.L.

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
IREC Renewable Electricity	Purchase IREC Certificates Green Electricity	2023	Electricity	Green Electricity
Ultrasonic leakage detection		2023	Electricity	48914
Variable speed drive air compressors		2023	Electricity	155805
Adiabatic system installation		2023	Diesel	896795

Green Leaf Threshing Plant, Philip Morris (Pakistan) Limited, Mardan Pakistan

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
Energy Conservation Projects carried out in Line I & II	Execution of Piggyback Classifier (CF) system to reduce energy consumption CO2 emissions	2013/ 2023	Diesel Oil	436167
Project Line Optimization, 1st Phase	- 1st Phase executed, 1st two CF changed and during processing season single line used; - Dust Recovery Fan main ducting is redesigned to make system energy efficient and reduce CO2 emissions	2014/ 2023	Diesel Oil	136554
Project Line Optimization, 2nd Phase	Complete Line upgraded, through put (TP) increased from 10Tons Per Hr to 14.7 Tons per Hr;	2015/ 2023	Diesel Oil	4264319
Energy Conservation	Replaced Pneumatic Transport with Manual Band Conveyor Energy Saving of 34KW Per Hr + Lighting system at Warehouses inside GLT upgraded	2017/ 2023	Diesel Oil	813882
Automation of Steam Control Valve at Stem re-dryer	Automation of Steam Control Valve at Stem re-dryer & Improvement to recover condensate heat, Pipe network improved	2020/ 2023	HFO & LPG	483777
LPG Boiler Fuel Conversion Project	LPG Boiler Fuel Conversion Project, Fuel of Boiler changed from HFO to LPG	2021/ 2023	LPG	747435
LPG Energy Saving-Loss Analysis	Installation of Air Pre Heater, Condensate Line Optimization, Insulation of Steam Line, Oxygen Analyzer	2022/ 2023	LPG	63326
Electricity Supply & Load Management during low throughput processing	Power shifting to local grid, Line load reduction, Stem packing in one shift only	2022/ 2023	Electricity & Diesel Oil	158260

PT. HM Sampoerna & PT. Sampoerna Indonesia Sembilan, Sukorejo Plant, Indonesia

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
Controlling SKJ-AHU Fan Speed	Control the frequency of FAN AHU Motor using VSD (Variable Speed Drive) as an indicator of energy saving	2023	Electricity	182817
Optimizing Chiller	Monitoring the running of electric chillers, chiller absorbers, CWP, CHWP, and Cooling Towers through real time and several devices (Using Software)	2023	Electricity	201098

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2eq]
Installing AHU EC FAN	Changing the AHU Fan from motor to EC Motor type (Will reduce consumption of electricity)	2023	Electricity	1087111
Installing SKM Ripping Machine without using Steam	Eliminate steam consumption in riper engines	2023	Gas	151055
Biomass Boiler (ZCT Project)	Implementation boiler process to produce steam by using biomass fuels (wood palette as a source of boiler energy)	2023	Wood palette	3637381
Solar Panel (ZCT Project)	Implementing renewable energy by using sunlight as a source of energy	2023	Renewable Energy	5278652
Install Compressor Optimizer and Linkup pipe to SPP	Install Optimizer in Compressor to optimize compressor running and install Compressed Air pipe to SPP Department.	2023	Electricity Energy	808964
Lighting Upgrade in Clove, Primary, and Secondary Process	Replacing non-LED lights with Led Lighting	2023	Electricity	640

PT. HM Sampoerna - Sigaret Kretek Tangan (SKT) Malang

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2023	2023	Electricity	103142
Solar Panel	Implementing renewable energy by using sunlight as a source of energy	2023	Renewable Energy	33202
Optimize Utilization of lighting & Air Conditioning	Enhance lighting & Air Conditioning (AC) by installing timer/presence sensor at production unit Warehouse, Offices, Toilet, Server Room, Production.	2023	Electricity	393
Optimize utilization of utility	Optimize running time of Exhaust Fan, Optimize room temperature for server room (25^0 C), Variable speed drive (VSD) for exhaust > 5 KW	2023	Electricity	344

PT. HM Sampoerna - Sigaret Kretek Tangan (SKT) Rungkut-1

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2023	2023	Electricity	45755

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Solar Panel	Implementing renewable energy by using sunlight as a source of energy (capacity 190 Kwp dan 39 Kwp)	2023	Renewable Energy	4427
Optimize Utilization of lighting & Air Conditioning	Optimize lighting & Air Conditioning (AC) by installing timer/presence sensor at production unit Warehouse, Offices, Toilet, Server Room, Production.	2023	Electricity	1683
Optimize utilization of utility	Optimize running time of Exhaust Fan, Optimize room temperature for server room (25^0 C), Variable speed drive (VSD) for exhaust > 5 KW	2023	Electricity	1473

PT. HM Sampoerna - Sigaret Kretek Tangan (SKT) Rungkut-2

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2023	2023	Electricity	174488
Solar Panel	Implementing renewable energy by using sunlight as a source of energy (capacity 155 Kwp)	2023	Renewable Energy	133679
Optimize Utilization of lighting & Air Conditioning	Optimize lighting & Air Conditioning (AC) by installing timer/presence sensor at production unit Warehouse, Offices, Toilet, Server Room, Production.	2023	Electricity	11800
Optimize utilization of utility	Optimize running time of Exhaust Fan, Optimize room temperature for server room (25^0 C), Variable speed drive (VSD) for exhaust > 5 KW	2023	Electricity	10325

PT. HM Sampoerna - Sigaret Kretek Tangan (SKT) - Kraksaan

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2023	2023	Electricity	193100
Optimize Utilization of lighting & Air Conditioning	Optimize lighting & Air Conditioning (AC) by installing timer/presence sensor at production unit Warehouse, Offices, Toilet, Server Room, Production.	2023	Electricity	9217

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Optimize utilization of utility	Optimize running time of Exhaust Fan, Optimize room temperature for server room (25^0 C), Variable speed drive (VSD) for exhaust > 5 KW	2023	Electricity	8065 Reduced the energy to 37 GJ / year

PT. Hanjaya Mandala Sampoerna Tbk, Karawang Plant, Indonesia

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2023	2023	Electricity	28812447
High efficiency chiller installation	High efficiency chiller and VSD installation aimed to increase utility system efficiency	2022/ 2023	Electricity	1218594
Idle/sleep mode for Secondary Equipment	Setting equipment in secondary area into idle/sleep mode during no production	2023	Electricity	235779
Reduce equipment speed and set point	Reduction of equipment speed and set point to ensure optimal utilization of energy used	2023	Electricity	228432
AHU Improvement	Improvement aimed at reducing AHU energy by installing EC fans instead of AC, replacement existing AHU's coil, and AHU flowrate optimization	2022/ 2023	Electricity	380672
Improvement Compressor Efficiency	Install high efficiency compressor in 2019 and 2023 for Secondary Production Area	2023	Electricity	137689
VSD installation for every 5 KW and above motor	Application of Variable Speed Drive (VSD) and temperature-controlled exhaust installation aimed to reduce electricity consumption by increasing its efficiency.	2022/ 2023	Electricity	201707

PT Phillip Morris Indonesia - Karawang Plant

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Solar Cell	Solar cell installed since 2017/2018 generates CO2 reduction in 2023	2023	Electricity	319304
Green electricity	Buying green electricity from state-owned electricity company since 2019 generates CO2 reduction in 2023	2023	Electricity	13914891
Idle/sleep mode for Primary Equipment	Setting equipment in primary area into idle/sleep mode during no production	2023	Electricity	223986
Utility New Initiatives RF11	Minor improvement and optimalization on several areas at primary and secondary production area	2023	Electricity	72416
Rebalancing in dust collection system	Measuring air speed in cut filler feeding de-dusting pipe to ensure speed <20 m/s	2023	Electricity	21058
Additional LOTO	Install additional LOTO Secondary Area (6 LUs) and additional LOTO on Case Packer (5 CPs)	2023	Electricity	29037

Massalin Particulares S.R.L, Merlo, Argentina

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
IREC Renewable Electricity	Purchase IREC Certificates Green Electricity	2022	Electricity	5074899
Automatic cut off (compressed air + vacuum pumps)	Automatically cut-off Vacuum supply valve when machine in not producing	2023	Electricity	13680
Thermal insulation primary equipment	Insulation to return primary process area pipes and valves stations	2023	Gas	135
Lighting efficiency	Install LED lighting fixtures in different site areas to reduce electrical energy consumption during working hours.	2023	Electricity	25308
Free cooling for secondary AHUs	Implement free cooling logic into secondary process. AHU automation	2023	Electricity	33883
Lockers room air recirculation	Reduce fresh air intake	2023	Electricity	112503
Chilled water replacement	Install 3-way valves into 2-way valves that will modulate according to temperature area	2023	Electricity	5313

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Transformer efficiency	Power transformer removal. Associated circuits will be relocated among the rest of the low voltage distribution cabinets	2023	Electricity	17091
Flash steam recovery	Heat recovery equipment installation in condensate return line. This energy will be used to reheat boiler water (55° to 80°)	2023	Gas	13089
Burner air preheating (Heat recovery vacuum)	Recover heat in vacuum systems exhaust. This energy will be recovered as boiler's burner air preheating. New pipes will be installed, and automation will be implemented	2023	Gas	12329

Philip Morris Operations a.d. Niš

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Free Cooling	Usage of outside Air for indirect cooling inside HVAC	2023	Electricity, Natural gas	63114; 159867
Electricity Green certificate	The acquisition of electricity green certificate on a yearly basis ensure that electricity consumed in the factory is produced by 100% renewable sources. Initiative started in 2018 and gives continuous contribution year by year.	2023	Electricity	16206865
Adiabatic humidification	Usage of high pressurize water for air humidification inside HVAC instead or steam	2023	Gas	650655
LED light	Installation of LED light inside production BLD. & warehouses	2023	Electricity	319197
HR on Atlas Copco vacuum pumps	Installation of plate heat exchangers inside vacuum pumps and usage of generated heat for sanitary water heating (instead usage of steam).	2023	Water/Gas	93261
FTD Heat Recovery	Installation of heat exchanger on process air flow. Usage of produced hot water for heating of Administration building	2023	Steam	289113
Chilled water Optimizer	Upgrade of chiller station equipment and cooling water production process improvement.	2023	Electricity	320000
Ahu Flow rate optimization - EC fans instead of AC	Replacement of radial fans with EC units in HVAC which lead to electricity consumption up to 30%.	2023	Electricity	745000

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Thermal insulation in Primary equipment	Installation of pipelines, valves and Primary production equipment which reduce heat losses and natural gas consumption.	2023	Gas	326086
FTD heat recovery - heat exchanger on process air flow	Installation of heat exchanger on FTD process air flow and usage of collected heat for heating purpose of administration building and production building offices.	2023	Gas	1591304

Phillip Morris Investments B.V. Jordan

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Green Electricity Certificates	green certificates on a yearly basis purchasing for electricity	2023	Electricity	
Street lighting project	Replace 40 street (parking, gardening area) lighting units to LED	2023	Electricity	
ESI Wave2- Ultrasonic Leakage detection camera making	Compressed air leakage detection equipment to support the maintenance procedures and ensure the mitigation of losses.	2023	Electricity	
Working Days optimization for CA (compressed air) chamber	Identification of tobacco types to be treated (ET) and ensure that chamber only operate with full batch quantity	2023	Electricity	
Primary package units	Primary package units' engagement to chiller	2023		
Supply Secondary Electrical room by central HVAC	Replace standalone HVAC in power room with ducting connected to Secondary AHU	2023		210000
Ventilation systems consumption reduction (fresh/exhaust AHU's)	Replace fresh/exhaust AHU's with standalone ventilation fans	2023		
Temperature & Relative Humidity (T & RH) equipment consumption optimization	Optimize storage areas of Cut Filler in Primary and switch off Bin filling station AC (Air Conditioning) unit	2023		
Offices motion sensors	Installation of motion sensors in manufacturing offices	2023		
Baseload Reduction initiatives	Reduce lighting units in yards. Switch off power source inside Secondary during weekends. Dismantle Hot Melt	2023		

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Philip Morris Romania SRL

Project name	Description	Year	Type of energy used	Emission reduction [kg CO_2 eq]
Electricity Green certificate	Green electricity certificates purchasing on a yearly basis	2023	Electricity	13603148
Steam station interconnection	Project consisted in interconnecting the 2 Boiler House in PMR, to optimize efficiency and be able to supply steam to the factory from the most efficient one	2023	Gas	395121
GEMT System Extension – Lvl 3 and Lvl 4	Installation initiate in 2016 are continuing to contribute to the reduction of specific consumption in Primary and Secondary processes for Energy KPI monitoring. Scope of this project is to extend metering for Lvl 3 and Lvl 4 metering capabilities	2023	Electricity/Gas	110000
Specific reduction steam CL process	Primary team initiatives to reduce the specific steam in Cast Leaf process tracking in Primary DDS	2023	Gas	299508
Specific consumption reduction Secondary RRP production	Improve performance of production equipment during normal production, focus on loss elimination	2023	Electricity	945988
Specific consumption reduction Primary RRP production	Improve performance of production equipment during normal production, focus on loss elimination	2023	Electricity	88086
Specific consumption reduction DigiPrint production	Improve performance of production equipment during normal production, focus on loss elimination	2023	Electricity	553182
ES21 - Thermal insulation in Primary equipment	Insulation of process steam lines with flexible insulations to reduce heat loss in steam distribution on Primary Equipment	2023	Gas	176220
HVAC Optimization	Reduce electricity consumption by running the HVAC units based on process demand.	2023	Electricity	5256

3.3 Planned GHG emissions reduction initiatives

Table 3.3 shows main initiatives identified and their estimated reduction for the commitment period to 2023/2025 for PMI factories included in Cluster 1. For ease of reading, the initiatives have been split by entity:

Table 3.3 - Planned GHG emissions reduction initiatives in Cluster 1

Philip Morris SA – Neuchatel

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Car fleet	Conversion from diesel fleet to hybrid fleet and increase own charging stations.	2021/2024	Electricity and Diesel	0
Pyrolysis installation	Addition of a Pyrolysis to treat on site biogenic waste (paper, tobacco, wood, tobacco) and generate syn gas to produce steam	2024	Gas	1000000
Compressed air heat recovery	With the installation of the new compressor 315VSD, add the heat recovery	2024	Gas	30000
Venturi Steam Traps	Remove hydrostatic steam traps and install venturi steam traps to decrease steam losses	2024/2025	Gas	633000
Steam Trap Monitoring System	Inline monitoring of the steam traps to reduce steam losses	2025	Gas	4000
Photovoltaic panels to produce renewable energy on site	Implement solar photovoltaic panels on the roofs of the Production and IDC buildings	2025	Electricity	Green electricity purchasing

UAB Philip Morris Lietuva

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Heat recovery via Heat pump - On Secondary dedusting	Heat pump installation on dedusting system.	2025	Fuel	78784
Baseload assessment and reduction - installation of low load steam generator	Installation of gas type steam generator. Steam boilers use gas constantly, generators can turn on/off without preheating.	2025	Fuel	65449
Central Cooling - Filter Makers	Installation of centralized cooling system for production machinery.	2025	Electricity	169034

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Optimization of Mechanical Drive Systems - Motor replacement for high efficiency	Replacement for more efficient technology of EC motors on dry coolers	2024/2025	Electricity	118000
Operation optimization in Compressed Air and Steam system - Compressed	Air pressure reduction (to 6.0 bar)	2024	Electricity	72467
Baseload assessment and reduction - GEMT level 4 - Secondary Link-Ups (Phase 2)	Project One – operation energy – KPI transfer and reduction of energy consumption in production area	2024/2025	Electricity/Fuel	174000
Cooling efficiency increase due to new plant - CU44	Refurbishment of old cooling plant by replacing main chiller to new turbo core technology-based chiller	2024/2025	Electricity	41000
Central Cooling	Filter Makers central cooling	2025	Electricity	46954
Heat recovery via Heat pump	On compressed air system loop	2025	Electricity/Fuel	76654
Baseload assessment and reduction	Installation of low load steam generator	2024/2025	Fuel	55844

Philip Morris CR a.s.

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
ESI wave 2: Individual CA meter per secondary machines	Installation of individual compressed air consumption meters per linkup. Evaluation of individual KPIs and follow up actions.	2024	Electricity	to be calculated
ESI wave 3 2022-2025	New potential projects focused on energy saving (electricity, natural gas).	2024-2025	Electricity + Fuel	to be calculated
Photovoltaic powerplant	Photovoltaic powerplant	2024-2025	Electricity	to be calculated

Tabaqueira - Empresa Industrial de Tabacos, S.A. (Tabaqueira EIT, S.A.)

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Energy Efficiency Plan 2022 - 2025	Implementation of approximately 20 energy saving projects	2022/2025	Gas	750000
Steam System Equipment Upgrade	Improvement of the steam production, transport and usage infrastructure to avoid thermal losses.	2022/2024	Gas	191873
Venturi steam traps	Replacement of normal steam traps by Venturi technology to reduce the steam leakages to atmosphere	2023/2024	Gas	284809
Adiabatic humidification	Implementation of direct area humidification via water atomization to reduce steam consumption for HVAC	2023/2024	Gas/Electricity	588998
FTD heat recovery	Implementation of a heat exchanger on exhaust gas from Flash Tower Dryer to reduce gas consumption	2023/2024	Gas	25505
Efficient Lighting	Replacement of indoor lighting for LED technology as well as implementing active controls	2022/2023	Electricity	261865 green electricity; 4,961,668 MJ saving
Mechanical drives optimization	Replacement of electrical motors for more efficient technology	2023/2024	Electricity	31661 green electricity; 599,893 MJ saving

Massalin Particulares S.R.L., Salta, Lerma Argentina

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Solar Park	Installation of solar panels. Estimated installed power 1MW. 0.7 MW for own consumption and 0.3MW to inject into the electrical grid	2024/2025	Electricity	593000
Steam Pipe Insulation	Installation of 150 meters of 2" steam pipe with insulation materials	2024/2025	Gas	4116
Motor Replacement	Purchase and installation of more energy efficient motors.	2024/2025	Electricity	131164

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Installation of GEMT meters	Installation of energy meters Level 1 & 2 for consumption monitoring and improvement	2024/2025	Electricity Gas	110000
Boiler burner optimization	Implementation of controllers to improve the performance of boiler burners + Installation of gas meter	2024/2025	Gas	190477

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Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Shutdown CAEs ADM das 11h-14h	Shutdown of air conditioning in administrative areas at certain times	2024	Electricity	17349
Case 4 - Print Shop	Automation of the operation of Uteco exhaust fans	2024	Electricity	901
Case 3 - Print Shop	Automation of the operation of Lemanic exhaust fans to reduce consumption	2024	Electricity	852
Case 6 - Print Shop	Electropneumatic valve installation	2024	Electricity	295
Reduction cold water valve C1A and C1B	Centerline tuning	2024	Electricity	15812
Lighting automation (Gs Builds)	Install automation lighting system	2024	Electricity	27519
Directing the discharge of equipment LAB (CAL01 e 02)	Install exhausting of the room	2024	Electricity	918
Centralization of Dust central of Diet and Primary Process	Centralization of dust central	2024	Electricity	4125
D-Dusting and Charcoal Collectors Centralization Secondary Process	Centralization of dust central	2024	Electricity	30262
Lighting Print Shop	Lighting Print Shop	2024	Electricity	6879
Upgrade CAG Trane / Chiller Optimizer	Upgrade electronic	2024	Electricity	13759
AHU Flowrate optimization EC Fans (Secondary and Print Shop)	Flowrate optimization gaining in Thermal load	2024	Electricity	83836
ES CO2EQ recovery system (DIET balloon)	Recovery System for CO2EQ	2024	Electricity	6859
Baseload Reduction (Trafo Removal-Print Shop)	Removal trafo 750KVA	2024	Electricity	7830

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
TVP Panels for print shop Solar/Termico Grafica	Solar plate system installation for water heating and reduce LPG consumption for heaters Print Shop and a benefit of 3303GJ/year	2024	Fuel	51161
Heat Pumps (oil on Group)	Reduce CO2EQ	2024	Fuel	26567
Energy recovery to Diet process (Heat)	Heat energy	2024	Electricity	150175

Papastratos Cigarette Manufacturing Company, S.A.

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Installation of GEMT meters	Installation of energy meters Level 4	2024	Gas	30000
Venturi steam traps	Reduce steam loss from regular steam traps.	2024	Gas	150000
Zero carbon technology project	Installation of electric boiler and Heat pumps to reduce the fuel consumption	2025	Gas	9500000

Philip Morris Manufacturing Senegal S.A.R.L.

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Energy Saving Initiative	HVAC Overhaul	2024	Electricity	819409

Green Leaf Threshing Plant, Philip Morris (Pakistan) Limited, Mardan Pakistan

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Energy Purchase from WAPDA	Offsetting 25-70% (annual) electricity generation from Gensets via purchase from WAPDA. Machine Operation via WAPDA Power (Water and Power Development Authority)	2023/2025	Diesel Oil	1068271

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Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Solar Power Project	Generating 48% of daytime electrical energy via Solar Power	2024/2025	Diesel Oil & Electricity	70800 (estimated saving in 2024 YE)
Electricity conservation Initiatives	Replacement of remaining lights with LED SMD lights	2023/2024	Electricity	11787
Electricity conservation Initiatives	Packed WH Temp Automation -Automatic regulation of Cooling Hall temperature to avoid idle running of ventilation fans	2023/2025	Electricity	1887
Electricity conservation Initiatives	MPT batteries Utilization -Utilization of Motorized Pallet Trolley batteries during off-season for security lights	2023/2025	Electricity	1045
LPG Conservation Initiative	Conversion of Boiler #1 on LPG – for low throughput grades	2023/2025	LPG	176402
LPG Conservation Initiative	Installation of water heating jacket on Boiler	2023/2025	LPG	96127
LPG Conservation Initiative	Condensate recovery Improvements -Increase Storage Capacity of Feed Water Condensate Tank	2023/2025	LPG	24696
LPG Conservation Initiative	Insulation Steam Energy Line -Insulation of Steam control valves & condensate line and tank	2023/2025	LPG	40202
LPG Conservation Initiative	Automation of Stem Dryer	2023/2025	LPG	19404
LPG Conservation Initiative	Seat regeneration Steam Valves -Seat regeneration/repair of all steam control valves	2023/2025	LPG	40202
Diesel Conservation Initiative	Optimize Cleaning with Air -Separate cleaning air points and reduce air pressure to avoid losses and installation of no loss drain traps on air storage tanks	2023/2025	Diesel Oil	496
ECO Driving	ECO driving awareness through practical defensive & commentary drive training session	2023/2025	Petrol	500
Environment friendly	Evaluation of GHG emissions of new vehicles to be procured	2022/2025	Petrol	1200

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
vehicles procurement				
Engine idling monitoring	Reduction in fleet CO2EQ emissions through monitoring of fleet telematics engine idling violation	2022/2025	Petrol	500
ECO driving through telematics	Eco-driving Through Telematics	2021/2025	Petrol	250

PT. HM Sampoerna, Sukorejo Plant, Indonesia and PT. Sampoerna Indonesia Sembilan – Sukorejo Plant, Indonesia

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Wireless Steam Trap Monitoring System	Install steam trap monitoring system to reduce loss in steam usage	2024/2025	Gas	154093
VFD on every pump above 5 kW	optimized pump based On Best Efficiency Point of Pump	2024/2025	Electricity	113825
VFD on every fan above 5 kW	Install VSD to optimize electricity usage in pump	2024/2025	Electricity	223950
Dust Collector CL SKM1-2	Create Center Line for Dust Collector based on number of LU's Running	2024/2025	Electricity	101667
Baseload assessment and reduction - GEMT level 4 - Secondary LinkUp (SKJ)	Install metering in every linkup to optimized energy usage	2024/2025	Electricity	232116
HVAC AI Phase 2 - HMS Sukorejo	HVAC AI Phase to (Static logic to reinforcement Logic)	2024/2025	Electricity	102479
Chilled water optimizers	Optimized chiller system using AI	2024/2025	Electricity	360062

PT. HM Sampoerna - Sigaret Kretek Tangan (SKT) Malang, Rungkut 1, Rungkut 2, Kraksaan.

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Optimize Utilization of lighting & Air Conditioning	Optimize lighting & AC by installing timer/presence sensor at production unit Warehouse, Offices, Toilet, Server Room, Production, etc	2024	Electricity	-
Optimize utilization of utility	Optimize running time of Exhaust Fan, Optimize room temperature for server room (25^0 C), VSD (Variable speed drive) for exhaust > 5 KW	2024	Electricity	-

PT Hanjaya Mandala Sampoerna Tbk, Karawang Plant, Indonesia

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Replacement material chemical ink to high gloss OPV	Replacement material chemical ink which requires electricity supply and replaced by OPV that only requires UV lamp as backup	2024	Electricity	164346
Switch CA line at printing unit	Switching compressed air line for printing unit used on impression roll into independent compressor	2024	Electricity	65211
Increase flow air process temperature and reduce steam consumption	Balancing of heating air flow to reduce steam consumption on angular dryer	2024	Gas	34898
Green Electricity	Buying green electricity from state-owned electricity company generates CO2EQ reduction in 2024	2024	Electricity	67278440
Biomass Boiler	Biomass boiler implementation to produce steam by using biomass fuels (wood palette)	2025	Palm Kernel Shell / Wood palette	4298910
Chiller Absorption	Chiller absorption installation which reuses heat from the new biomass boiler.	2025	Palm Kernel Shell / Wood palette	2655774
Steam Turbine	Steam turbine installation which uses steam from biomass boiler to rotate the turbine. Operated parallel with electricity supplied from state owned electricity company	2025	Palm Kernel Shell / Wood palette	12897963

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Standardization O2 content on FTD burner	Resetting burner to reduce O2 concentration in FTD burner and maintain O2 level below 3%	2024	Gas	33324
Optimization lighting at Feeding and Cutting Area	Regroup lighting at feeding and cutting area to ensure optimal utilization	2024	Electricity	27118
Modification start/shut valve	Modify start/shut valve include vacuum supply to production area (maker and packer)	2024	Electricity	18059
Green electricity	Buying green electricity from state-owned electricity company generates CO2EQ reduction in 2024	2024	Electricity	17458039
Solar cell	Solar cell installed since 2017/2018 generates CO2EQ reduction in 2024	2024	Electricity	308635
Biomass Boiler	Biomass Boiler installation to produce steam by using biomass fuels (wood palette)	2025	Palm Kernel Shell / Wood palette	584255
Chiller Absorption	Chiller absorption installation that reuses heat from the new biomass boiler.	2025	Palm Kernel Shell / Wood palette	1235374
Steam Turbine	Steam turbine installation uses steam from biomass boiler to rotate the turbine. Operated parallel with electricity supplied from state owned electricity company.	2025	Palm Kernel Shell / Wood palette	6160725

Massalin Particulares S.R.L, Merlo plant, Argentina

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Solar Park	Install photovoltaic solar plant	2025	Electricity	485835
Steam traps	Steam system equipment upgrade. Installation of Venturi steam traps	2024	Gas	106125
Heat recovery in a steam system	Recovery of condensate water from the steam line.	2024	Gas	50501
Cleaning water preheating for FTD	Use water preheated with the heat of the ER900 (pressure heat recovery) to wash the FTD.	2024	Electricity	17262
Secondary dust collection system improvement Riedel	Optimization of turbine operation (dedusting and pneumatic loading). An improvement was made to the Riedel software to optimize the consumption of the turbines.	2024	Electricity	48760

Philip Morris Operations a.d. Niš

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Venturi steam traps	Installation of new generation steam traps with advanced technology, reduced maintenance, and increased energy savings.	2024	Gas	151820
Adiabatic humidification	Installation of direct adiabatic system in production areas which work with water instead of steam. Traditional humidifiers work with steam. Adiabatic humidifiers work with electricity and consume less energy	2024	Gas	173508
New steam boiler	Replacement of old overcapacity steam boiler with more efficient one	2025	Gas	
Solar PV plant	Install of 3.2 MW Solar PV plant on roofs of production and WHs buildings. Within this project we will reduce electricity consumption up to 16%.	2025	Electricity	2839010
New centrifugal compressor	Turbo compressor with magnetic bearing which is more efficient than existing ones.	2025	Gas	390394

Phillip Morris Investments B.V. Jordan

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Green Electricity Certificates	green certificates on a yearly basis purchasing for electricity	2024/2025	Electricity	Green electricity purchasing
Energy Consumption Losses	connect Secondary power room to central HVAC	2024	Electricity	110000
	replace exhaust/fresh AHU's with fans		Electricity	
	eliminate A/C unit in BFS and optimize CF storage areas		Electricity	
	full deployment of shutdown procedures before weekends/long stops		Electricity	
	install motion sensors in offices		Electricity	
	eliminate Hotmelt process on LU's		Electricity	
	supply new steam traps		Fuel	
	increase the feeding water temp. using solar system		Fuel	
	Deployment of new operating model		Electricity	

Philip Morris Romania SRL

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO_2 eq]
Specific reduction steam CL process	Maintain and improve good results on the project executed in 2021/2022	2023/ 2025	Gas	58439
ES08.05 - Deaerator Vent Condenser and ES08.09 - Open condensate tank Vent Condenser	Recovery and usage of the energy from the flash steam from deaerator and condensate tank through a recovery system for each equipment.	2023/ 2024	Gas	86000
Venturi steam traps	Replacement of normal steam traps by Venturi technology to reduce the steam leakages in condensate lines	2024/ 2026	Gas	384809
Expand factory metering system	Installation of energy meters Level 3 & 4 for consumption monitoring and improvement	2023/ 2026	Electricity	108853
Solar PV panels on rooftops and parking lot	Install solar PV panels on all factory rooftops and parking lot to produce electricity during the day	2024/ 2026	Electricity	1135
Heat pumps	Installation of heat pumps to produce hot water for heating, replacing the current solution of steam	2024/ 2025	Gas	3421634
E-Boiler	Installation of electrical boiler for steam production to replace on Conventional Boiler	2024/ 2025	Gas	5721666
Specific consumption reduction Secondary RRP production	Improve performance of production equipment during normal production, focus on loss elimination.	2023/ 2026	Electricity	174632
Specific consumption reduction DigiPrint production		2023/ 2026	Electricity	65080
Specific reduction Secondary CC production		2023/ 2026	Electricity	18493
Specific consumption reduction Primary RRP production		2023/ 2026	Electricity	132854
Buildings consumption reduction	Increasing awareness of PMR employees regarding energy consumption	2023/ 2026	Electricity	180952

Actual emissions reductions will be measured in terms of intensity metrics relating to production output.

4 Carbon offset program

4.1 Offset program for this application period

PMI has an offsetting program in place to support the carbon neutrality, based on quality criteria aligned with the 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 **Standard (VCS)**[1] , **Climate Community and Biodiversity Alliance (CCBA)**[2], **Gold Standard**[3], **and other offsets as endorsed in PAS2060**.

To compensate **2023 GHG emissions**, PMI has selected a set of carbon projects as described in paragraph 4.2.
Credits were retired **on July 16th and 17th 2024**

These projects are supported by publicly available project documentation on the GSF Registry (goldstandard.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=1t

4.2 Offsetting project(s)

Offsetting projects selected by PMI Cluster 1 for compensating the **2023** emissions are:

#	Project Name	Carbon credits allocation		Official project link
		tons	%	
1	Jari/Amapa – VCS 1115 REDD+ Project located in the Brazilian Amazon state of Amapá	**3446**	**5%**	https://registry.verra.org/app/projectDetail/VCS/1115
2	Rimba Raya – VCS 674 The Rimba Raya Biodiversity Reserve Project, an initiative by InfiniteEARTH, State/Province Central Kalimantan	**52780**	**81%**	https://registry.verra.org/app/projectDetail/VCS/674
3	Katingan Peatland Restoration and Conservation Project - VCS 1477 The Katingan Restoration and Conservation 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 Katingan and Kotawaringin Timur in Central Kalimantan Province and covers one of the largest remaining intact peat swamp forests in Indonesia	**9273**	**14%**	https://registry.verra.org/app/projectDetail/VCS/1477
		65499	**100%**	

The offsets are allocated to the individual entities as per following table:

Reporting Entity	Credits allocated for compensation (tons)	Project chosen for compensation	Vintage
AR (MASSALIN Merlo)	2172	JARI/AMAPÁ REDD+ PROJECT	2017
AR LF (MASSALIN Lrm)	2685	Katingan Peatland Restoration and Conservation Project	2016
AR LF (MASSALIN Lrm)	1274	JARI/AMAPÁ REDD+ PROJECT	2017
BR (Santa Cruz)	2436	Katingan Peatland Restoration and Conservation Project	2016
CH (PMP SA Neuch)	977	Katingan Peatland Restoration and Conservation Project	2016
CZ (Kutna Hora)	3175	Katingan Peatland Restoration and Conservation Project	2016
GR (PAPASTRATOS)	13214	Rimba Raya Biodiversity Reserve Project	2017
ID (PTPMI Karawang)	837	Rimba Raya Biodiversity Reserve Project	2017
ID (PTSIS Sukorejo)	23	Rimba Raya Biodiversity Reserve Project	2017
ID (SAMP Karawang)	5182	Rimba Raya Biodiversity Reserve Project	2017
ID (SAMP Sukorejo)	7085	Rimba Raya Biodiversity Reserve Project	2017
ID SKT (Kraksaan SAMPOERNA)	18	Rimba Raya Biodiversity Reserve Project	2017
ID SKT (Malang SAMPOERNA)	2	Rimba Raya Biodiversity Reserve Project	2017
ID SKT (Rungkut 1 SAMPOERNA)	51	Rimba Raya Biodiversity Reserve Project	2017
ID SKT (Rungkut 2 SAMPOERNA)	12	Rimba Raya Biodiversity Reserve Project	2017
JO (Amman)	289	Rimba Raya Biodiversity Reserve Project	2017
LT (Klaipeda)	105	Rimba Raya Biodiversity Reserve Project	2017
PK LF (PMPK Mard)	900	Rimba Raya Biodiversity Reserve Project	2017
PT (TABAQUEIRA)	3542	Rimba Raya Biodiversity Reserve Project	2017
RO (Bucharest)	16729	Rimba Raya Biodiversity Reserve Project	2017
RS (DIN)	4445	Rimba Raya Biodiversity Reserve Project	2017
SN (Dakar)	346	Rimba Raya Biodiversity Reserve Project	2017
TOTAL	**65499**		

4.3 Amount of credits purchased

Credits have been ordered by PMI for the period covering **1st of January 2023 – 31st December 2023.**
The amount of credits purchased is **65499** tons of CO_2 equivalent, it is composed by two contributions:

- **63591 tons of CO_2 equivalent**, amount evaluated for this application period
- **1908 tons of CO_2 equivalent**, that represent an additional 3% of the baseline carbon footprint to cover all the exclusions (Annex C) and to preclude underestimation.

We can reasonably assume that this amount covers 100% of the GHG emissions of PMI Cluster 1 Factories.

PMI Cluster 1 Manufacturing entities portfolio offsetting credits is composed as per the table in paragraph 4.2

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.

Retired credits certificates are attached on behalf of PMI for Cluster 1 of manufacturing entities, for offsetting unavoidable emissions, **in year 2023.**

https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=180286
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251871
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251873
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=174632
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=252002
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=176883
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=252000
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=252001
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251995
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251875
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=182300
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251998
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251980
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=219946
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=168941
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251867
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=172067
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https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251984

https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251981
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https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251987
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251982
https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=181880

4.4 Compensation program for the subsequent application periods

For subsequent application periods, PMI will retire the volume of carbon credits required once the emission calculations are completed for the period. The volumes of credits required by ***PMI affiliates grouped in Cluster 1*** will be confirmed upon completion of the greenhouse gas inventory audit for that Application period. The portfolio composition and share among projects will be determined based on the volume of credits.

5 Annex A – Carbon Neutrality Assurance letter

SGS

Verification Statement Number:
CCP267919.PMI. 2023.V1 20240730

The Carbon Neutrality Declaration as presented in its Qualifying Explanatory Statement (QES), for the application period 01/01/2023 – 31/12/2023 of:

Phillip Morris International "Cluster 1" group of manufacturing affiliates
(as defined in the scope section of this opinion)

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: Abdullah Buhidma

Authorised by:

Pamela Chadwick

Business Manager
SGS United Kingdom Ltd

Verification Statement Date: 30th July 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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Member of SGS Group

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
www.sgs.com/climatechange

SGS

Schedule Accompanying Greenhouse Gas Verification Statement CCP267919.PMI. 2023.V1 20240730

Brief Description of Verification Process
SGS has been contracted by Philip Morris International for the verification of their Carbon Neutrality Declaration as presented in the Qualifying Explanatory Statement (QES) for "Cluster 1" group of manufacturing affiliates, 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 (PMI) 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, and 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 July 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 manufacturing affiliates.
- Title or description of activities: Emissions for manufacturing facilities, warehousing, offices and operator-controlled fleet.
- Scope 1 & 2 emissions only
- Location/boundary of the activities: as per list below
- Second application period: Calendar Year 2023

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

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SGS

Manufacturing affiliates:

Reporting entity	Current Legal Entity
PT (TABAQUEIRA)	Tabaqueira Empresa Industrial de Tabacos S.A.
CH (PMP SA Neuch)	Philip Morris Products SA
LT (Klaipeda)	UAB Philip Morris Lietuva
CZ (Kutna Hora)	Philip Morris CR, a.s.
AR LF (MASSALIN Lrm)	MASSALIN PARTICULARES SRL, Lerma
BR (Santa Cruz)	Philip Morris Brasil Industria e Comercio Ltda.
GR (PAPASTRATOS)	Papastratos Cigarette Manufacturing Company, S.A.
SN (Dakar)	Philip Morris Manufacturing Senegal S.A.R.L.
PK LF (PMPK Mard)	Philip Morris (Pakistan) Limited, Mardan Factory
ID (SAMP Sukorejo)	PT Hanjaya Mandala Sampoerna, Tbk. Sukorejo Plant
ID (PTSIS Sukorejo)	PT Sampoerna Indonesia Sembilan, Sukorejo Pasuruan
ID SKT (Malang SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Malang
ID SKT (Rungkut 1 SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Rungkut 1
ID SKT (Rungkut 2 SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Rungkut 2
ID SKT (Kraksaan SAMPOERNA)	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Kraksaan
ID (PTPMI Karawang)	PT Philip Morris Indonesia Karawang International, Karawang
ID (SAMP Karawang)	PT Hanjaya Mandala Sampoerna, Tbk., Karawang Plant
AR (MASSALIN Merlo)	MASSALIN PARTICULARES S.R.L., Merlo
RS (DIN)	Philip Morris Operations a.d. Nis
JO (Amman)	Philip Morris Investments B.V. Jordan
RO (Bucharest)	Philip Morris Romania SRL

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 CO_2 equivalent emissions, carbon neutrality declaration and QES for the 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 CO_2 equivalent data and information and conforms to the requirements of PAS2060 2014.

6 Annex B – Qualifying Explanatory Statements (QES) checklist

7 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.

Scope	Emission source	Description	Inclusion exclusion	Justification of Exclusion
1.1	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	-
1.2	Mobile combustion sources	Transportation of employees and goods with cars under affiliate control.	Included	-
1.3	Process emissions	Emissions occurring during the production process (DIET)	Included	-
1.4	Fugitive emissions	Refrigerant gases losses	Excluded	Identified as below materiality threshold within the GHG inventory
2.1	Electricity consumption	Generation of purchased electricity	Included	-
2.2	Heat, steam and/or cold consumption	Purchase of heat, steam or cold energy not produced at operation site.	Included	-
3	Scope 3	All other indirect emissions	Excluded	Out of scope

Table 7.1 - Inclusions and exclusions

8 Annex D – Uncertainty calculation

8.1 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%
- Emission factor: 7%

All information can be accessed in the below file attached:

UC 1 240617_Cluster 1 Carbon Neutrality D

Outcome of the uncertainty calculation (from uncertainty Cluster 1 attached file)

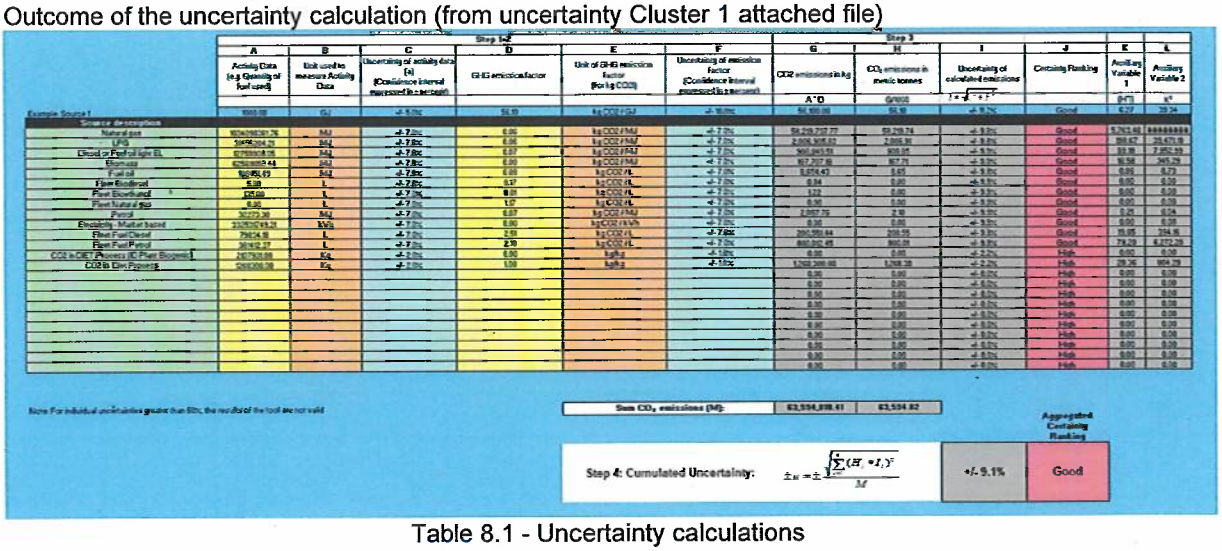


Table 8.1 - Uncertainty calculations

[5] https://ghgprotocol.org/calculation-tools

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 Forrestry	33%	50%	60%
CH_4	Biomass Burning	50%	50%	100%
CH_4	Oil and Nat. Gas Activities	55%	20%	60%
CH_4	Rice cultivation	3/4	1/4	1
CH_4	Waste	2/3	1/3	1
CH_4	Animals	25%	10%	20%
CH_4	Animal waste	20%	10%	20%
N_2O	Industrial Processes	35%	35%	50%
N_2O	Agricultural Soils			2 orders of magnitude
N_2O	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 8.2 - IPCC uncertainty data

9 Annex E – Voluntary offset program

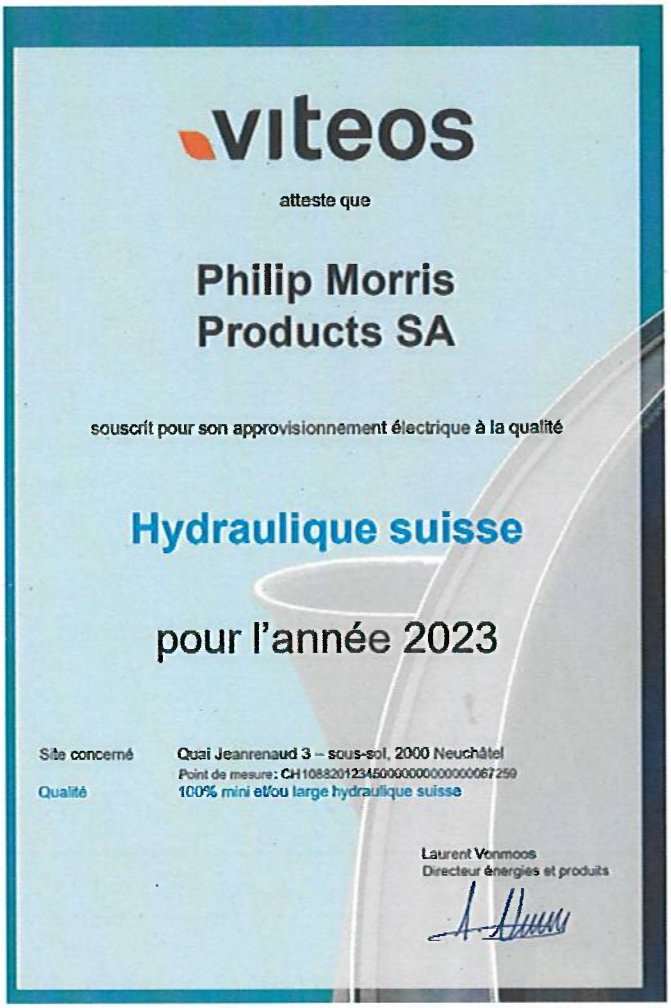
In this annex, shortlist of projects chosen for compensation of **2023** emissions.

#	Project Name	Official project link
1	**Jari/Amapa** – VCS 1115 REDD+ Project located in the Brazilian Amazon state of Amapá	https://registry.verra.org/app/projectDetail/VCS/1115
2	**Rimba Raya** – VCS 674 The Rimba Raya Biodiversity Reserve Project, an initiative by InfiniteEARTH, State/Province Central Kalimantan	https://registry.verra.org/app/projectDetail/VCS/674
3	**Katingan Peatland Restoration and Conservation Project** - VCS 1477 The Katingan Restoration and Conservation Project ('The Katingan Project') protects and restores 149,800 hectares of peatland ecosystems, to offer local communities sustainable sources of income, and to tackle global climate change	https://registry.verra.org/app/projectDetail/VCS/1477

10 Annex F – Renewable Energy Certificates

In this annex, captured all the certificates for green electricity for the group of sites included in Cluster 1.

Philip Morris Products SA



viteos

atteste que

Philip Morris Products SA

souscrit pour son approvisionnement électrique à la qualité

Hydraulique suisse

pour l'année 2023

Site concerné: Quai Jeanrenaud 3 – sous-sol, 2000 Neuchâtel
Point de mesure: CH1088201234500000000000067259
Qualité: 100% mini et/ou large hydraulique suisse

Laurent Vonmoos
Directeur énergies et produits

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Kutna Hora- Philip Morris CR a.s.

OTE

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Cancellation Statement for Guarantees of Origin

This Cancellation Statement acts as a receipt for the guarantees of origin listed below and for the purpose shown.

Unique identification number of this Cancellation Statement: 22X0001333_20240307_112123

With the issuance of this Cancellation Statement, the indicated guarantees of origin are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental attributes of the associated energy have been consumed and this Cancellation Statement and these guarantees of origin may not be transferred to any party other than the energy supplier or end-consumer listed below. The beneficiary has declared that this cancellation corresponds with consumption of energy in the same energy carrier as the one listed below.

Account holder information:	
Account number:	22X0001333
Name:	innogy Energie, s.r.o.
Address:	Limuzská 3135/3135, Praha 10, 108 00, Czech Republic
Company identification number:	49903209
VAT identification number:	CZ49903209

Beneficiary Information:	
Type of beneficiary:	End-consumer - Legal entity
Name:	Philip Morris ČR a.s. , Kutná Hora
Address:	Vítězná 1, Kutná Hora, 28403, Czech Republic
Company identification number:	14803534
VAT identification number:	CZ14803534

Cancellation information:	
Consumption period:	2023-01-01 - 2023-12-31
Cancellation date:	2024-03-07
Energy carrier:	Electricity
Amount of energy (MWh):	26649
Registry cancelled from:	CZ 22 OTE, a.s.
Type of cancelled certificates:	Guarantee of origin
Cancellation category/purpose:	Disclosure

OTE

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Overview of cancelled guarantees of origin

Guarantee of origin ID (from-to)	Country of issue	Amount	Issue date	Energy source	Technology type	Production period (from-to)	Production device ID	Production device name	Support scheme
8437019015000000000011104297496 8437019015000000000011104297619	ES	124	2023-11-16	Mechanical source - Wind	Wind - Onshore	2023-07-01 2023-07-31	8437019015000261000	P.E. LA ESTANCA	No support
8437019015000000000011104365221 8437019015000000000011104367055	ES	1835	2023-11-16	Heat - Solar - Unspecified	Photovoltaic - Unspecified	2023-07-01 2023-07-31	8437019015000345000	FV LOS NARANJOS	No support
8437019015000000000011104387923 8437019015000000000011104394553	ES	6631	2023-11-16	Heat - Solar - Unspecified	Photovoltaic - Unspecified	2023-07-01 2023-07-31	8437019015000345000	FV LAS CORCHAS	No support
8437019015000000000011104428284 8437019015000000000011104438342	ES	18059	2023-11-16	Heat - Solar - Unspecified	Photovoltaic - Unspecified	2023-07-01 2023-07-31	8437019015000257000	F.V. TOTANA	No support

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Papastratos Cigarette Manufacturing Company, S.A.

protergia

CERTIFICATE

GUARANTEED SOURCE OF ENERGY

Protergia, MYTILINEOS' Energy Business Unit,
certifies that for **22063** MWh of electricity consumed in
PAPASTRATOS CIGARETTES MANUFACTURING COMPANY S.A.
between **1.1.2023** and **30.9.2023**
an equivalent energy has been produced by Renewable Energy Sources (RES).

IOANNIS GIANNAKOPOULOS
Energy Management Director
Power and Gas Business Unit

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Sales Key Account Customers Section

Info :
Georgios Theocharidis

T 6970005389
g.theocharidis@dei.gr

To :
PAPASTRATOS CIGARETTES MANUFACTURING COMPANY S.A.

Wednesday, 21 February 2024

Subject: GREEN PASS CERTIFICATION

We confirm that we have already secured guarantees of origin (GO's) for **PAPASTRATOS CIGARETTES MANUFACTURING** COMPANY S.A. relating to the electricity consumption from 01/10/2023 to 31/12/2023 10.210 MWh of PAPASTRATOS CIGARETTES MANUFACTURING COMPANY S.A. in Greece supplied by PPC S.A.

It is noted that certificates for October, November and December 2023 are expexted to be issued from DAPEEP.

This is granted for any legitimate use.

G. Theocharidis
Key Account Manager

Aristeidou st. 5-7 +302105225873
105 59, Athens
www.dei.gr

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SGS

Statnett

Cancellation Statement

This cancellation statement provides the proof of origin for 10 126 MWh consumed energy.

This cancellation statement proves that 10 126 Guarantees of Origin has been cancelled in the Norwegian Energy Certificate System (NECS).

Performed by

Account Holder Name	AFS Energy b.v.
Account Holder Code	08XR25CS6E
VAT Number	NL808506432B01
Account	707052300001192331
Domain	Norway
Postal Code	1012 JW
City	Amsterdam
Country	Netherlands

On behalf of

Name of Beneficiary	PMI Papastratos Cigarette Manufacturing Company SA
Consumption Start	2023-10-01
Consumption End	2023-12-31
Country of Consumption	Romania
Location of Beneficiary	factory Papastratos
Usage Category	Disclosure
Type of Beneficiary	End Consumer

Transaction Information

Transaction Date	2024-03-07 14:32
Transaction Number	2024030700743
Cancellation Purpose	The stated Redemption Purpose is Scope 2 reporting and CDP disclosure for reporting period 1.10.23 – 31.12.23 in Greece
Volume Cancelled (sum)	10 126

This cancellation statement acts as a receipt of the cancellation of the certificates listed and for the purpose shown. With this Cancellation Statement, released on the 2024-03-07, the indicated certificates are no longer tradable.
Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified above.

View cancellation statement here.

Oslo, 2024-03-07

Ole Jacob Høyland
Director, market operations
Statnett SF

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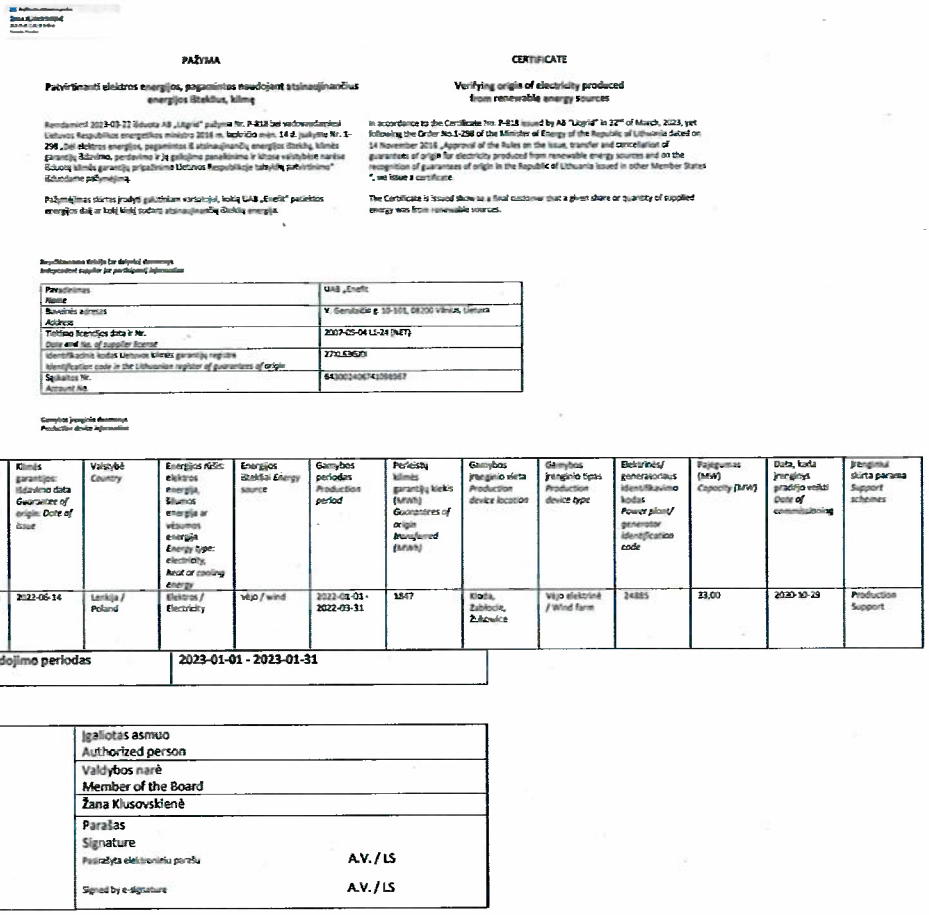
Philip Morris Lietuva

All electricity cancellation statements:



PAŽYMA

Patvirtinanti elektros energijos, pagamintos naudojant atsinaujinančius energijos išteklius, kilmę

Remdamiesi 2023-03-22 išduota AB „Litgrid" pažyma Nr. P-818 bei vadovaudamiesi Lietuvos Respublikos energetikos ministro 2016 m. lapkričio mėn. 14 d. įsakymu Nr. 1-298 „Dėl elektros energijos, pagamintos iš atsinaujinančių energijos išteklių, kilmės garantijų išdavimo, perdavimo ir jų galiojimo panaikinimo ir ištaisa valstybėse narėse išduotų kilmės garantijų pripažinimo Lietuvos Respublikoje taisyklių patvirtinimo" išduodame pažymėjimą.

Pažymėjime skirtas įrašyti galutiniam vartotojui, kokią UAB „Enefit" pateiktos energijos dalį ar kokį kiekį sudarė atsinaujinantieji ištekliai energija.

CERTIFICATE

Verifying origin of electricity produced from renewable energy sources

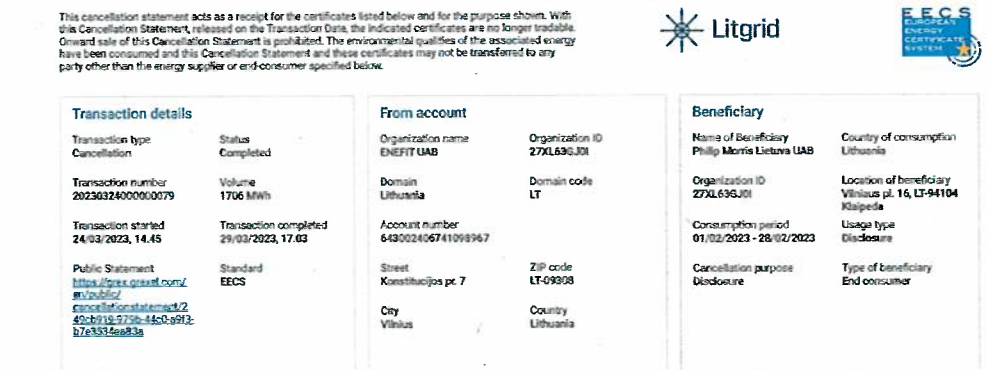
In accordance to the Certificate No. P-818 issued by AB "Litgrid" in 22nd of March, 2023, yet following the Order No.1-298 of the Minister of Energy of the Republic of Lithuania dated on 14 November 2016 „Approval of the Rules on the issue, transfer and cancellation of guarantees of origin for electricity produced from renewable energy sources and on the recognition of guarantees of origin in the Republic of Lithuania issued in other Member States ", we issue a certificate.

The Certificate is issued show to a final customer that a given share or quantity of supplied energy was from renewable sources.

Pavadinimas *Name*	UAB „Enefit
Buveinės adresas *Address*	V. Graičiūno g. 10-101, 08200 Vilnius, Lietuva
Teisės licencijos data ir Nr. *Date and No. of supplier licence*	2007-05-04 LS-24 (NET)
Identifikacinis kodas Lietuvos kilmės garantijų registre *Identification code in the Lithuanian register of guarantees of origin*	27XL63GJ0I
Sąskaitos Nr. *Account No*	643002406741098967

Vartotojas *End user*	Unikalus identifikacinis numeris *Unique identification number*	Kilmės garantijos: išdavimo data *Guarantee of origin: Date of issue*	Valstybė *Country*	Energijos rūšis: elektros energija, šilumos energija ar vėsumos energija *Energy type: electricity, heat or cooling energy*	Energijos ištekliai *Energy source*	Gamybos periodas *Production period*	Perleistų kilmės garantijų kiekis (MWh) *Guarantees of origin transferred (MWh)*	Gamybos įrenginio vieta *Production device location*	Gamybos įrenginio tipas *Production device type*	Elektrinės/ generatoriaus identifikavimo kodas *Power plant/ generator identification code*	Galingumas (MW) *Capacity (MW)*	Data, kada įrenginys pradėjo veikti *Date of commissioning*	Įrenginiui skirta parama *Support schemes*
Philip Morris Lietuva UAB	PL000315477/GP_WR/01/2485/2022	2023-05-14	Lenkija / Poland	Elektros / Electricity	Vėjo / wind	2022-01-01 - 2022-03-31	1647	Kloda, Žabikoje, Žukowice	Vėjo elektrinė / Wind farm	24885	23,00	2020-10-29	Production Support
Kilmės garantijų panaudojimo periodas *Consumption period*						**2023-01-01 - 2023-01-31**							

UAB „Enefit"	Įgaliotas asmuo *Authorized person*
	Valdybos narė *Member of the Board*
	Žana Klusovskienė
	Parašas *Signature*
	Pasirašyta elektroniniu parašu A.V. / LS
	Signed by e-signature A.V. / LS



Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Litgrid

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type: Cancellation
Status: Completed
Transaction number: 20230324000000079
Volume: 1706 MWh
Transaction started: 24/03/2023, 14.45
Transaction completed: 29/03/2023, 17.03
Public Statement: https://prex.grexel.com/en/public/cancellationstatement/240cb919-975b-44c0-a9f3-b7e9534ea83a
Standard: EECS

From account

Organization name: ENEFIT UAB
Organization ID: 27XL63GJ0I
Domain: Lithuania
Domain code: LT
Account number: 643002406741098967
Street: Konstitucijos pr. 7
ZIP code: LT-09308
City: Vilnius
Country: Lithuania

Beneficiary

Name of Beneficiary: Philip Morris Lietuva UAB
Country of consumption: Lithuania
Organization ID: 27XL63GJ0I
Location of beneficiary: Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period: 01/02/2023 - 28/02/2023
Usage type: Disclosure
Cancellation purpose: Disclosure
Type of beneficiary: End consumer

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Cancellation Statement

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Litgrid

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230428000000187	Volume 1917 MWh
Transaction started 28/04/2023, 15.28	Transaction completed 02/05/2023, 10.47
Public Statement https://grex.grexel.com/en/public/cancellationstatement/4801c232-d21a-4b1c-b410-55bc222f01de	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/03/2023 - 31/03/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Litgrid

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230512000000112	Volume 1714 MWh
Transaction started 12/05/2023, 12.01	Transaction completed 19/05/2023, 10.39
Public Statement https://grex.grexel.com/en/public/cancellationstatement/8c4ea710-4f93-4a3f-b557-474787bac1de	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/04/2023 - 30/04/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

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EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230620000002127	Volume 1402 MWh
Transaction started 20/06/2023, 20.17	Transaction completed 28/06/2023, 15.35
Public Statement https://grex.grexel.com/en/public/cancellationstatement/dc43817c-3600-44a0-9c26-b249627fb7c3	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/05/2023 - 31/05/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

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EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230726000000142	Volume 1798 MWh
Transaction started 20/07/2023, 15.34	Transaction completed 24/07/2023, 13.11
Public Statement https://grex.grexel.com/en/public/cancellationstatement/d1465818-0a05-4f33-97e9-b3f5d794c673	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/06/2023 - 30/06/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

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EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 2023081800000093	Volume 1928 MWh
Transaction started 18/08/2023, 15.42	Transaction completed 21/08/2023, 15.16
Public Statement https://grex.grexel.com/en/public/cancellationstatement/aef74c84-539f-4429-a556-2e3417f16647	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/07/2023 - 31/07/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Litgrid

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 2023092000000109	Volume 1959 MWh
Transaction started 20/09/2023, 13.07	Transaction completed 25/09/2023, 11.05
Public Statement https://grex.grexel.com/en/public/cancellationstatement/30175db5-d536-45e4-9f2a-553cdb5c5a54	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/08/2023 - 31/08/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

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EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 2023101200000114	Volume 1702 MWh
Transaction started 12/10/2023, 15.45	Transaction completed 16/10/2023, 15.05
Public Statement https://grex.grexel.com/en/public/cancellationstatement/728fa422-3fbb-43b8-bacc-15cd632cc5af	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/09/2023 - 30/09/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Litgrid

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 2023112000000130	Volume 1606 MWh
Transaction started 20/11/2023, 14.03	Transaction completed 21/11/2023, 14.29
Public Statement https://grex.grexel.com/en/public/cancellationstatement/0c2a8fef-aef9-46a9-a8e0-84d92862fbe0	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ0I
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ0I	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/10/2023 - 31/10/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Litgrid

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 202312130000000059	Volume 1552 MWh
Transaction started 13/12/2023, 12.55	Transaction completed 22/12/2023, 8.45
Public Statement https://grex.grexel.com/en/public/cancellationstatement/4cb64c9f-64ea-4943-ad33-56f538ead96d	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ01
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ01	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/11/2023 - 30/11/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Litgrid

Transaction details

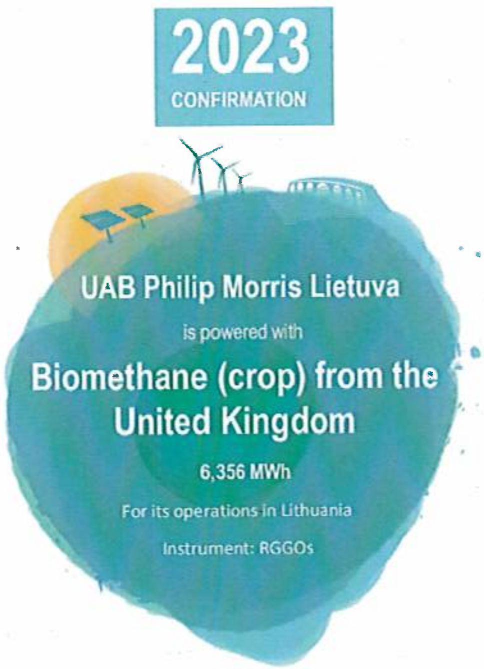
Transaction type Cancellation	Status Completed
Transaction number 202401220000000156	Volume 1270 MWh
Transaction started 22/01/2024, 13.30	Transaction completed 22/01/2024, 15.51
Public Statement https://grex.grexel.com/en/public/cancellationstatement/c69659cb-616e-40cd-b75e-29d5bd0c6e56	Standard EECS

From account

Organization name ENEFIT UAB	Organization ID 27XL63GJ01
Domain Lithuania	Domain code LT
Account number 643002406741098967	
Street Konstitucijos pr. 7	ZIP code LT-09308
City Vilnius	Country Lithuania

Beneficiary

Name of Beneficiary Philip Morris Lietuva UAB	Country of consumption Lithuania
Organization ID 27XL63GJ01	Location of beneficiary Vilniaus pl. 16, LT-94104 Klaipeda
Consumption period 01/12/2023 - 31/12/2023	Usage type Disclosure
Cancellation purpose Disclosure	Type of beneficiary End consumer



PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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PHILIP MORRIS BRASIL IND. COM. LTDA.

THE INTERNATIONAL REC STANDARD

This Redemption Statement has been produced for

PHILIP MORRIS BRASIL INDUSTRIA E COMERCIO LTDA

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

15 615.000000

I-REC Certificates, representing 15 615.000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Factory Santa Cruz
Brazil

in respect of the reporting period

2023-01-01 to **2024-06-30**

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for Philip Morris Brasil Industria e Comercio Ltda, Factory Santa Cruz.

Ev.

QR Code Verification

Verify the status of this Redemption Statement by scanning the QR code on the left and entering in the Verification Key below

Verification Key

1 7 9 7 6 0 6 4

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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SGS

PT Hanjaya Mandala Sampoerna, Tbk. Sukorejo Plant and Karawang plant;

PT Sampoerna Indonesia Sembilan, Sukorejo Pasuruan;

PT Hanjaya Mandala Sampoerna, Tbk. SKT Malang plant, Rungkut 1 plant, Rungkut 2 plant, Kraksaan plant;

PT Philip Morris Indonesia Karawang International, Karawang

THE INTERNATIONAL REC STANDARD

This Redemption Statement has been produced for

PMI COMPANY PT INDONESIA

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

96 509.000000

I-REC Certificates, representing 96 509.000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Factories SAMP Karawang, SAMP Sukorejo, Kraksaan Sampoerna, Malang Sampoerna, Rungkut 1 Sampoerna, Rungkut 2 Sampoerna, PTSIS Sukorejo and PTPMI Karawang.
Indonesia

in respect of the reporting period

2023-01-01 to 2023-12-31

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for PMI Company PT Indonesia Factories SAMP Karawang, SAMP Sukorejo, Kraksaan Sampoerna, Malang Sampoerna, Rungkut 1 Sampoerna, Rungkut 2 Sampoerna, PTSIS Sukorejo and PTPMI Karawang.

Ev.

QR Code Verification
Verify the status of this Redemption Statement by scanning the QR code on the left and entering in the Verification Key below
Verification Key
1 0 1 1 1 2 2 0
https://api-internal.evident.app/public/certificates/en/p7UfXFHr7e5GiRIFV9rQHmeZVGeQzqxc0peK9YzRxJ8DP58KXnxvl8ouP7x%2FDLac

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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PT Hanjaya Mandala Sampoerna, Tbk. Sukorejo Plant - Biogenic CO2 certificate

No Dokumen: QC-F-002/3
PT. MOLINDO INTI GAS

Revisi: 00
Tgl Terbit: 12 Februari 2024

mig | PT MOLINDO INTI GAS

CERTIFICATE OF ORIGIN

This document confirms and/or certifies that PT Molindo Inti Gas has supplied 2107.931 Tons of Biogenic CO_2 to PT HM Sampoerna in 2023. The liquid CO_2 produced at our distillery is sourced from the fermentation of black strap molasses into bio-ethanol. No other materials or source have been used other than the above stated.

Issued this 10th of July 2024.

Signed by,

Yohanes Kurniawan
General Manager

Head Office :
PT Molindo Inti Gas
Jl. Sumber Waras No. 273
Lawang 65216
Malang - Indonesia
+62 341 426270 - 3 (Hunting)
info@molindointigas.co.id
www.molindointigas.co.id

Distribution Office :
PT Molindo Inti Gas
Kawasan Industri MM2100
Jl. Irian 3J Blok LL 2-5 Cibitung
Bekasi 17520 - Indonesia
+62 21 8982604 - 08 (Hunting)
info@molindointigas.co.id

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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PAS 2060
SGS

Green Leaf Threshing Plant, Philip Morris (Pakistan) Limited, Mardan Pakistan

enel x

PURCHASE STATMENT

RENEWABLE ENERGY CERTIFICATES FOR PAKISTAN

With this certificate Enel X confirms that PMI has purchased 1,713 MWh Pakistan IRECs

The IRECs were issued for the production of renewable electricity generated by Solar and Wind power plants in Pakistan for the sole benefit of PMI company Philip Morris (Pakistan) Limited, factory Mardan.

Volume: ***1,713***

Technology: ***Solar***

Origin: ***Pakistan***

Period of consumption covered: ***Jan23- Sep23***

Production period: ***Jul23 – Dec23***

Commissioning year: ***After 2008***

enel x

PURCHASE STATMENT

RENEWABLE ENERGY CERTIFICATES FOR PAKISTAN

With this certificate Enel X confirms that PMI has purchased 571 MWh Pakistan IRECs

The IRECs were issued for the production of renewable electricity generated by Solar and Wind power plants in Pakistan for the sole benefit of PMI company Philip Morris (Pakistan) Limited, factory Mardan.

Volume: ***571***

Technology: ***Solar***

Origin: ***Pakistan***

Period of consumption covered: ***Oct23- Dec23***

Production period: ***Jul23 – Dec23***

Commissioning year: ***After 2008***

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
www.sgs.com/climatechange

Massalin Particulares S.R.L., Lerma,Salta, Argentina

Massalin Particulares S.R.L., Merlo, Argentina

THE INTERNATIONAL REC STANDARD

This Redemption Statement has been produced for

PMI COMPANY MASSALIN PARTICULARES SRL.

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

26 133.000000

I-REC Certificates, representing 26 133.000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Factories Massalin Merlo and Massalin Lerma. Argentina

in respect of the reporting period

2023-01-01 to 2024-06-30

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for PMI company Massalin Particulares SRL Factory Massalin Merlo and factory Massalin Lerma.

Ev.

QR Code Verification

Verify the status of this Redemption Statement by scanning the QR code on the left and entering in the Verification Key below

Verification Key

9 0 9 5 2 6 1 5

https://api-internal.evident.app/public/certificates/en/cqvpYftGnHxBdRFP%2FPCkxvX1e6gF%2FEHnwMjxUGbZVdc2GnH1IZ0KvbPhKD1OXo9M

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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SGS

Philip Morris Operations a.d. Niš

АКЦИОНАРСКО ДРУШТВО
ЕЛЕКТРОМРЕЖА СРБИЈЕ

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction Type:	Cancel
Transaction status:	Completed
Transaction Date:	2023-03-06 14:26:37
Transaction Number:	20230306000096
Message to Receiver:	-

From

Account Holder:	JP EPS BEOGRAD
Account:	RS- JP EPS BEOGRAD-643002406741098837
Domain:	Serbia
Street:	Balkanska
Postal Code and City:	11000 Beograd
Country:	Serbia

To

Name of Beneficiary:	PHILIP MORRIS OPERATIONS A.D. - NIŠ
Cancellation Purpose:	Supply to the consumer in 01/2023
Consumption Period:	2023-01-01 to 2023-01-31
Country of Consumption:	Serbia
Location of Beneficiary:	Serbia
Usage Category:	Disclosure
Type of Beneficiary:	End-consumer

Total

Total MWh:	1352
Total GO:	1352

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
www.sgs.com/climatechange
PAS 2060
SGS

АКЦИОНАРСКО ДРУШТВО
ЕЛЕКТРОМРЕЖА СРБИЈЕ

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction Type:	Cancel
Transaction status:	Completed
Transaction Date:	2023-04-03 13:39:13
Transaction Number:	2023040300084
Message to Receiver:	-

From

Account Holder:	JP EPS BEOGRAD
Account:	RS- JP EPS BEOGRAD-643002406741098837
Domain:	Serbia
Street:	Balkanska
Postal Code and City:	11000 Beograd
Country:	Serbia

To

Name of Beneficiary:	PHILIP MORRIS OPERATIONS A.D. - NIŠ
Cancellation Purpose:	Supply to the consumer in 02/2023
Consumption Period:	2023-02-01 to 2023-02-28
Country of Consumption:	Serbia
Location of Beneficiary:	Serbia
Usage Category:	Disclosure
Type of Beneficiary:	End-consumer

Total

Total MWh:	1654
Total GO:	1654

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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PAS 2060
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АКЦИОНАРСКО ДРУШТВО
ЕЛЕКТРОМРЕЖА СРБИЈЕ

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction Type:	Cancel
Transaction status:	Completed
Transaction Date:	2023-04-26 13:16:27
Transaction Number:	2023042600019
Message to Receiver:	-

From

Account Holder:	EPS AD Beograd
Account:	RS- EPS AD Beograd-643002406741098837
Domain:	Serbia
Street:	Balkanska
Postal Code and City:	11000 Beograd
Country:	Serbia

To

Name of Beneficiary:	PHILIP MORRIS OPERATIONS A.D. - NIŠ
Cancellation Purpose:	Supply to the consumer in 03/2023
Consumption Period:	2023-03-01 to 2023-03-31
Country of Consumption:	Serbia
Location of Beneficiary:	Serbia
Usage Category:	Disclosure
Type of Beneficiary:	End-consumer

Total

Total MWh:	1811
Total GO:	1811

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

JOINT STOCK COMPANY ELEKTROMREŽA SRBIJE

EECS EUROPEAN ENERGY CERTIFICATE SYSTEM

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230602000000057	Volume 1488 MWh
Transaction started 02/06/2023, 8.50	Transaction completed 02/06/2023, 10.20
Public Statement https://grex.grexel.com/en/public/cancellationstatement/6c9ac8e7-f976-4b28-97b2-5670ccfb13c9	Standard EECS

From account

Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Domain Serbia	Domain code RS
Account number 643002406741098837	Street Balkanska
PO box 13	ZIP code 11000
City Beograd	Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/04/2023 - 30/04/2023	Usage type Disclosure
Cancellation purpose Supply to the consumer in 04/2023	Type of beneficiary End consumer

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
www.sgs.com/climatechange

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230710000000093	Volume 1752 MWh
Transaction started 10/07/2023, 11.55	Transaction completed 10/07/2023, 12.07
Public Statement https://grex.grexel.com/en/public/cancellationstatement/a2c5a0bd-fd3a-46df-96fd-a015caef2b8a	Standard EECS

From account

Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Domain Serbia	Domain code RS
Account number 643002406741098837	Street Balkanska
PO box 13	ZIP code 11000
City Beograd	Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/05/2023 - 31/05/2023	Usage type Disclosure
Cancellation purpose Supply to the consumer in 05/2023	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230804000000104	Volume 1872 MWh
Transaction started 04/08/2023, 10.58	Transaction completed 04/08/2023, 12.48
Public Statement https://grex.grexel.com/en/public/cancellationstatement/d980b61e-d355-44d0-97a7-7c819e78b300	Standard EECS

From account

Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Domain Serbia	Domain code RS
Account number 643002406741098837	Street Balkanska
PO box 13	ZIP code 11000
City Beograd	Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/06/2023 - 30/06/2023	Usage type Disclosure
Cancellation purpose Supply to the consumer in 2023/06	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20230907000000031	Volume 1568 MWh
Transaction started 07/09/2023, 7.53	Transaction completed 07/09/2023, 9.57
Public Statement https://grex.grexel.com/en/public/cancellationstatement/c9e78b1b-181a-4d4a-9170-587193a40458	Standard EECS

From account

Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Domain Serbia	Domain code RS
Account number 643002406741098837	Street Balkanska
PO box 13	ZIP code 11000
City Beograd	Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/07/2023 - 31/07/2023	Usage type Disclosure
Cancellation purpose Supply to the consumer	Type of beneficiary End consumer

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DEMONSTRATION OF CARBON NEUTRALITY
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Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20231002000000138	Volume 2048 MWh
Transaction started 02/10/2023, 13.05	Transaction completed 02/10/2023, 15.36
Public Statement https://grex.grexel.com/en/public/cancellationstatement/1e104009-772c-4ab3-a5d8-aa82c125d324	Standard EECS

From account

Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Domain Serbia	Domain code RS
Account number 643002406741098837	Street Balkanska
PO box 13	ZIP code 11000
City Beograd	Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/08/2023 - 31/08/2023	Usage type Disclosure
Cancellation purpose Supply to the consumer in 08/2023	Type of beneficiary End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type Cancellation	Status Completed
Transaction number 20231030000000151	Volume 1928 MWh
Transaction started 30/10/2023, 12.20	Transaction completed 31/10/2023, 8.13
Public Statement https://grex.grexel.com/en/public/cancellationstatement/f0da0466-6004-4aa9-9a7e-740387283e05	Standard EECS

From account

Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Domain Serbia	Domain code RS
Account number 643002406741098837	Street Balkanska
PO box 13	ZIP code 11000
City Beograd	Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/09/2023 - 30/09/2023	Usage type Disclosure
Cancellation purpose Supply to the consumer in 09/2023	Type of beneficiary End consumer

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type: Cancellation
Status: Completed
Transaction number: 20231201000000326
Volume: 2031 MWh
Transaction started: 01/12/2023, 15.12
Transaction completed: 01/12/2023, 15.56
Public Statement: https://grex.grexel.com/en/public/cancellationstatement/1b779d76-5bac-4993-aa94-dd97be68fe55
Standard: EECS

From account

Organization name: EPS AD Beograd
Organization ID: 47XQ80ZW5L
Domain: Serbia
Domain code: RS
Account number: 643002406741098837
Street: Balkanska
PO box: 13
ZIP code: 11000
City: Beograd
Country: Serbia

Beneficiary

Name of Beneficiary: PHILIP MORRIS OPERATIONS A.D. - NIŠ
Country of consumption: Serbia
Organization ID: 47XQ80ZW5L
Location of beneficiary: Serbia
Consumption period: 01/10/2023 - 31/10/2023
Usage type: Disclosure
Cancellation purpose: Supply to the consumer in 10/2023
Type of beneficiary: End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type: Cancellation
Status: Completed
Transaction number: 20240129000000154
Volume: 1649 MWh
Transaction started: 29/01/2024, 12.45
Transaction completed: 29/01/2024, 14.19
Public Statement: https://grex.grexel.com/en/public/cancellationstatement/49f7c8ab-839e-4e05-a50b-673a5570b0e0
Standard: EECS

From account

Organization name: EPS AD Beograd
Organization ID: 47XQ80ZW5L
Domain: Serbia
Domain code: RS
Account number: 643002406741098837
Street: Balkanska
PO box: 13
ZIP code: 11000
City: Beograd
Country: Serbia

Beneficiary

Name of Beneficiary: PHILIP MORRIS OPERATIONS A.D. - NIŠ
Country of consumption: Serbia
Organization ID: 47XQ80ZW5L
Location of beneficiary: Serbia
Consumption period: 01/11/2023 - 30/11/2023
Usage type: Disclosure
Cancellation purpose: Supply to the consumer in 11/2023
Type of beneficiary: End consumer

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction type: Cancellation
Status: Completed
Transaction number: 20240212000000091
Volume: 1720 MWh
Transaction started: 12/02/2024, 12.44
Transaction completed: 12/02/2024, 15.47
Public Statement: https://grex.grexel.com/en/public/cancellationstatement/0013714c-be95-421e-a52b-cbd86cb5e136
Standard: EECS

From account

Organization name: EPS AD Beograd
Organization ID: 47XQ80ZW5L
Domain: Serbia
Domain code: RS
Account number: 643002406741098837
Street: Balkanska
PO box: 13
ZIP code: 11000
City: Beograd
Country: Serbia

Beneficiary

Name of Beneficiary: PHILIP MORRIS OPERATIONS A.D. - NIŠ
Country of consumption: Serbia
Organization ID: 47XQ80ZW5L
Location of beneficiary: Serbia
Consumption period: 01/12/2023 - 31/12/2023
Usage type: Disclosure
Cancellation purpose: Supply to the consumer in 12/2023
Type of beneficiary: End consumer

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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Philip Morris Investments B.V. Jordan

enel x

PURCHASE STATMENT

RENEWABLE ENERGY CERTIFICATES IN JORDAN

With this certificate Enel X confirms that PMI has purchased 2,448 MWh Jordan IRECs

The IRECs were issued for the production of renewable electricity generated by Solar power plants in Jordan for the sole benefit of PMI company Philip Morris Investments B.V. Jordan, factory Amman.

Volume: ***2,448***
Technology: ***Solar***
Origin: ***Jordan***
Period of consumption covered: ***Jan23- Sep23***
Production period: ***Jul23 – Dec23***
Commissioning year: ***2018***

enel x

PURCHASE STATMENT

RENEWABLE ENERGY CERTIFICATES IN JORDAN

With this certificate Enel X confirms that PMI has purchased 816 MWh Jordan IRECs

The IRECs were issued for the production of renewable electricity generated by Solar power plants in Jordan for the sole benefit of PMI company Philip Morris Investments B.V. Jordan, factory Amman.

Volume: ***816***
Technology: ***Solar***
Origin: ***Jordan***
Period of consumption covered: ***Oct23- Dec23***
Production period: ***Jul23 – Dec23***
Commissioning year: ***2018***

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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Philip Morris Romania SRL

Statnett

AIB

Cancellation Statement

This cancellation statement provides the proof of origin for 46 328 MWh consumed energy.

This cancellation statement proves that 46 328 Guarantees of Origin has been cancelled in the Norwegian Energy Certificate System (NECS).

Performed by

Account Holder Name	AFS Energy b.v.
Account Holder Code	08XR25CS6E
VAT Number	NL808506432B01
Account	707052300001161054
Domain	Norway
Postal Code	1012 JW
City	Amsterdam
Country	Netherlands

On behalf of

Name of Beneficiary	ROMANIA Philip Morris Romania SRL
Consumption Start	2023-01-01
Consumption End	2024-06-30
Country of Consumption	Romania
Location of Beneficiary	factory Bucharest
Usage Category	Disclosure
Type of Beneficiary	End Consumer

Transaction Information

Transaction Date	2024-03-07 14:28
Transaction Number	2024030700732
Cancellation Purpose	The stated Redemption Purpose is Scope 2 reporting and CDP disclosure for reporting period 1.01.23 - 30.06.24 in Romania
Volume Cancelled (sum)	46 328

This cancellation statement acts as a receipt of the cancellation of the certificates listed and for the purpose shown. With this Cancellation Statement, released on the 2024-03-07, the indicated certificates are no longer tradable.
Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified above.

View cancellation statement here.

Oslo, 2024-03-07

Ole Jacob Høyland
Director, market operations
Statnett SF

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
www.sgs.com/climatechange

Philip Morris Manufacturing Senegal S.A.R.L.

THE INTERNATIONAL REC STANDARD

This Redemption Statement has been produced for

PMI COMPANY PHILIP MORRIS MANUFACTURING SENEGAL S.A.R.L.

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

4 952.000000

I-REC Certificates, representing 4 952.000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Factory Dakar
Senegal

in respect of the reporting period

2023-01-01 to 2023-12-31

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for PMI company Philip Morris Manufacturing Senegal S.A.R.L. Factory Dakar

Ev.

QR Code Verification

Verify the status of this Redemption Statement by scanning the QR code on the left and entering in the Verification Key below

Verification Key

3 0 9 6 8 3 9 6

https://api-internal.evident.app/public/certificates/en/VPju61P5Nc4m8apXSt7UdX4IkHx6aYLIZ8ZIyEBa9THCRe7xSIoSfb%2FH%2FM982%2FMU

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
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Tabaqueira- Empresa Industrial Tabacos S.A

Declaração de Energia Verde

A Iberdrola declara que realizou as operações necessárias, através do sistema de Garantias de Origem, para comprovar que a eletricidade fornecida aos nossos Clientes foi produzida a partir de uma determinada fonte e tecnologia.

Desta forma, asseguramos que a energia fornecida pela Iberdrola Clientes Portugal e consumida pelo(a) **TABAQUEIRA - EMPRESA INDUSTRIAL TABACOS, S.A.** no período compreendido entre 01 / 01 / 2023 e 31 / 12 / 2023 com um volume de **19 208,01** kWh medido no local de consumo, provém exclusivamente de fontes renováveis que respeitam o meio ambiente, evitando emissões de CO_2 e outros gases contaminantes.

IBERDROLA

Rui Afonso
DIRETOR GERAL

PHILIP MORRIS INTERNATIONAL

DEMONSTRATION OF CARBON NEUTRALITY
www.sgs.com/climatechange

END OF THE DOCUMENT

CARBON NEUTRAL DECLARATION CLUSTER 1

Lausanne, 26 August 2024

Stephanie Thery
Head of Sustainability - Global Manufacturing
PMI Operations

Lausanne, 26 August 2024

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