





PHILIP MORRIS INTERNATIONAL

DECLARATION OF CARBON NEUTRALITY

MANUFACTURING ENTITIES CLUSTER1





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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:

Sustainability resources | PMI

In 2022, due to continuous growth of our community of factories that are joining the carbon neutral declaration process, we decided to cluster factories under the same declaration of commitment and achievement. This Cluster, Cluster 1 will be continued for 2024-emissions year declaration.

This is the third 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 2024 with a commitment to maintain to 31st December 2025 for the period commencing 1st January 2024. 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 2024 and ending 31st December 2024 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
- Compensation of remaining carbon emissions for the period commencing 1st January 2024 and ending 31st December 2024.

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)	Chiara Rizzi
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 2024
Achievement period	1st of January 2024– 31st of December 2024
Commitment period	1st of January 2025 – 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)	СС	Tabaqueira Empresa Industrial de Tabacos S.A.
CH (PMP SA Neuch)	CC	Philip Morris Products SA
LT (Klaipeda)	CC 1117/11 F TH E	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)	СС	Philip Morris Brasil Industria e Comercio Ltda.
GR (PAPASTRATOS)	SFP (RRP)	Papastratos Cigarette Manufacturing Company, S.A.
SN (Dakar)	СС	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)	СС	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Malang
ID SKT (Rungkut 1 SAMPOERNA)	CC A 15/1	PT Hanjaya Mandala Sampoerna, TbkSKT Plant Rungkut 1
ID SKT (Rungkut 2 SAMPOERNA)	СС	PT Hanjaya Mandala Sampoerna, Tbk., SKT Plant Rungkut 2
ID SKT (Kraksaan SAMPOERNA)	СС	PT Hanjaya Mandala Sampoerna, Tbk. SKT Plant Kraksaan
ID (PTPMI Karawang)	СС	PT Philip Morris Indonesia Karawang International, Karawang
ID (SAMP Karawang)	cc	PT Hanjaya Mandala Sampoerna, Tbk., Karawang Plant
AR (MASSALIN Merio)	СС	MASSALIN PARTICULARES S.R.L., Merlo
RS (DIN)	cc	Philip Morris Operations a.d. Nis
JO (Amman)	СС	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 2024 to 31st December 2024 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

			Harry I	NAME OF STREET		3000 1000	FOR SHIP	8) JF.
Reporting entity	RRP P1 Stick Productio n 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) - Manufacturin g [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 emission 2024 MARKET based
AR (MASSALIN Merlo)		17148.1		1864.09		1864.09	88.86	1953
AR LF (MASSALIN Lrm)		39818.14	40	3870.52	100	3870.52	50.07	3921
BR (Santa Cruz)		18535.95	1124.034	1345.15	0	2469.18	0.91	2470
CH (PMP SA Neuch)	1812.98	12988.99	11211001	1061.75		1061.75	0.51	1062
CZ (Kutna Hora)		39889.7		2247.25	12-11-1-1-0	2247.25		
OD (DADAGED) TOO	00000						60.12	2307
GR (PAPASTRATOS)	25649.12	25649.12	Sain uit es	11621.59	par phonegr	11621.59	50.45	11672
ID (PTPMI Karawang)		20531.36	neath the	710.3	0919V00 557	710.3	1.03	711
ID (PTSIS Sukorejo)		458.57		7.06		7.06		7
ID (SAMP Karawang)	4134.836	28071.08		5407.4		5407.4	44.52	5452
ID (SAMP Sukorejo)	Allow tine	39991.33	0	3696.56	2115.88	3696.56	76.11	3773
ID SKT (Kraksaan SAMPOERNA)		2050.85		1.23	in pablyoid i	1.23	21.14	22
ID SKT (Malang SAMPOERNA)		788.54		0.53	-	0.53	1.77	2
ID SKT (Rungkut 1 SAMPOERNA)		617.91		0.29		0.29	45.75	46
ID SKT (Rungkut 2 SAMPOERNA)	Brite or	2481.33	F ask 1 391	0.60	WILL PAYER THE	0.60	11.82	12
JO (Amman)		3565.74		267.25	THE PERSON NAMED IN COLUMN 1	267.25	8,26	276
LT (Klaipeda)	Jeug 31	31281.76	EU LUBOI	842.24	147	147	23	170
PK LF (PMPK Mard)	lut pring	0	anns atte	1186.33	bas vieway	1186.33	209.94	1396
PT (TABAQUEIRA)		44700.91		3387.72		3387.72	51.85	3440
RO (Bucharest)	27319.24	28226.41	the many	17114.04	NOU ISSUED IN	17114.04	42,25	17156
RS (DIN)	202	56242.56	ed teles	4108.43	hat in the	4108.43	102.56	4211
SN (Dakar)		4166.53		247.62	The second second	247.62	31.21	279





The total GHG emissions in scope 1 and 2 of Philip Morris International Cluster 1 of manufacturing entities during the **year 2024** (third application period) represent a total of **60339 tons of CO2 equivalent**.

GHG scope	2024 GHG emissions [tCO2eq]	2024 Scope contribution [%]		
CO2 Scope 1 Fuels (GHG emissions) - Manufacturing [t GHG]	58293	96.6%		
CO2 Scope1 – Fleet emissions - Vehicles [t GHG]	922	1.6%		
CO2 Scope 1 Emissions from DIET (GHG emissions) Expanded Tobacco [t GHG]	1124	1.8%		
Sub Total [tCO2eq]	60339	100%		

Table 2.1 - Cluster 1 GHG emissions overall results

Biogenic CO2 for some DIET Expanded Tobacco Process (in Indonesia plant - ID SAMP Sukorejo) were accounted as zero as Biogenic CO2 covered as per evidence in the Annex F.

695 tons of CO2eq related to **Natural gas in 2024** 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 2024 to 31st December 2024, have been quantified according to GHG Protocol, Corporate Accounting and Reporting Standard, following the operational control approach. This methodology was chosen as it represents best practice in terms of organization carbon footprint inventory and PAS 2060:2014 endorses it as being fully compliant with its requirements.

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

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

The inventory accounts for 100% of GHG emissions of business activities and operations in which PMI 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
 - o Diesel (fuel oil)
 - Heavy fuel oil
 - o Petrol
 - Biomass
- Mobile combustion
 - o Petrol
 - o Diesel
 - Biodiesel
 - o 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 three entities mentioned in paragraph 2.3.

Result of the uncertainty calculation is reported in Annex D.





2.7 Comparison with baseline period results

2024 is the third 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.

deut of Segretary and Associates and Research and Associates and A	2022 GHG emissions [tCO2eq]	2023 GHG emissions [tCO2eq]	2024 GHG emissions [tCO2eq]
CO2 Scope 1 Fuels (GHG emissions) - Manufacturing [t GHG]	58018.4	61321.9	58,293
CO2 Scope1 - Fleet emissions -Vehicles [t GHG]	855.7	1001.0	922
CO2 Scope 1 Emissions from DIET (GHG emissions) Expanded Tobacco [t GHG]	1712.9	1268.3	1,124
Sub Total [tCO2eq]	60,587	63,591	60,339
3%	1818	1908	1810
Total Carbon footprint [tCO2eq] with 3% (rounded up based on the decimals)	62,405	65,499	62,149

1024	Emission Year 2021	Emission Year 2022				
SFP (RRP) Intensity (CO2 t/mio Cig eq)	0.639	0.6	88			
CC Intensity	0.129	0.101		0.101		
Conversion factors	4.97	6.85		TOURSE IN THE		
PENCL .				AND THE PARTY SHEET		
	Year 2021	Year 2022	Year 2023	Year 2024		
new Denominator	463,628	590,236	684,777	726,830		
	Emission Year 2021	Emission Year 2022	Emission Year 2023	Emission Year 2024		
New Intensity per Cluster 1 [CO2 t/ new Denumerator]	0.132	0.103	0.093	0.083		
Intensity reduction		22%	10%	10,6%		





3 Carbon Management Plan

The carbon reduction management plan considers a year period (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 2024, all reporting entities sourced 100% of their electricity from renewable sources, with the exception of Russia, Ukraine, and partially South Korea. Since 2017, we have gradually increased the uptake of green electricity (as shown in below table). By investing in renewable energy electricity, PMI overall avoided emissions of over 2,2 million ton of CO2 equivalent.

Indicator	2017	2018	2019	2020	2021	2022	2023	2024	Total Value
CO2 Scope 2 (GHG emissions) - Manufacturing - Market based [t GHG]	217,563	149,757	111,508	65,289	41,157	27,909	16,186	30,495	659,863
CO2 Scope 2 (GHG emissions) - Manufacturing - Location based [t GHG]	414,126	395,371	398,332	357,670	336,964	333,553	346,113	352,073	2,934,202
Cumulative difference between Location based and Market based	196,563	245,615	286,824	292,382	295,807	305,644	329,927	321,579	2,274,339

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 2024 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 CO2eq]
Primary insulation improvement	Insulate remaining steam pipes and valves to reduce heat losses	2023	Gas	8710
Project One	Install meters on each production line and implement a reporting tool to follow-up and reduce overconsumption at the production side	2024	Gas	22000
Al HVAC (Artificial Intelligence Heating Ventilation Air	Optimize gas consumption used for ensuring humidity in production are using Artificial Intelligence tools.	2024	Gas	25000
Conditioning) Phase 2				

UAB Philip Morris Lietuva

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
AI HVAC	Artificial intelligence system for Air Handling Units which optimizes cooling, heating and humidification usage. ZOOM-HVAC phase 2 Roll-out 2021 (OPP-018796).	2023/2024	Electricity/Fuel	96000
Chilled Water Low dT	Chilled water system upgrade - low dT control on AHU cooling coil (BMS dT control or simple stand-alone controller) (OPP-017023).	2023/2024	Electricity	21303 (Avoided)
Air Flow Control	AHU flow rate optimization – Fresh air intake controlled based on actual dedusting system exhaust (OPP-017176)/	2023/2024	Electricity	69911 (Avoided)
Thermal Insulation	Additional installation on boilers, steam and condensate supply lines in production and technical areas. (OPP-024774)	2024	Fuel	47 764
Chilled Water Optimizer	Cloud base central plant control software for cooling system automation optimization (OPP-021539).	2024	Electricity	47 282 (Avoided)
LED Lights	Light replacement to LED in Primary & Secondary infeed zones (OPP-100567)	2024	Electricity	7 881





Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
	- Company of the comp		1-01-01-01	(Avoided)
Motor Refurbishment	Motor replacement to higher efficiency in cooling system – roof dry-coolers (OPP-100559).	2024	Electricity	43 736 (Avoided)
Solar Power Plant	Installation of solar park with capacity of 1.85MW (OPP-025412).	2024/2025	Electricity	178 965 (Avoided)
Passive Coolers	Replace freezers with air heat exchanges for Focke electrical cooling boxes (OPP-021425).	2024	Electricity	4 526 (Avoided)
Parallel Pumps	Cooling system optimization: parallel pump controller to synchronize central pump work (OPP-025372).	2023/2024	Electricity	3 076 (Avoided)
Smart Cooling Valves	Installation of Belimo energy valves (OPP-025371).	2024	Electricity	1 509 (Avoided)
AI HVAC	Phase 2 of the Artificial intelligence project for Air handling Units. The system upgrade brough enhanced machine learning algorithms which	2024/2025	Electricity	15 166 (Avoided)
	reduced additional consumption.		Fuel	34 241
Project One	Initiative to reduce energy consumption in production by installing metering on production machinery, establishing daily monitoring	2024	Electricity	5 896 (Avoided)
	systems, and encouraging technical personnel to generate energy reduction initiatives in their daily work-related activities (OPP-100198).		Fuel	10 671

Philip Morris CR a.s.

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Energy Saving Initiatives: Project ONE - Individual Compressed Air metering per secondary machines	Installation of individual compressed air consumption meters per linkup. Evaluation of individual KPIs and follow up actions.	2024 - 2025	Electricity	Green electricity (CO ₂ equivalent of 352 MWh electricity 12 months)
Energy Saving Initiatives: Steam system equipment	Insulation of steam equipment	2023-2025	Fuel	24775





Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
upgrade - Insulation of return condensate lines	The state of the case of the case of	to morning to my	movi 92 s	Standt P
Energy Saving Initiatives: Steam system equipment upgrade - VSD controlled boiler feed water pumps	VSD controlled boiler feed water pumps improve boiler economizers efficiency	2024-2025	Fuel notes	19000
ES07.02 Heat Recovery in Vacuum System	Installation of heat exchanger for heat recovery from vacuum pumps.	2024 - 2025	Fuel	20000
ES07.01 Heat Recovery in CA System (dryers)	Installation of heat pumps for heat recovery from compressed air dryers.	2024-2025	Fuel	24000

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

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
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 m² 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
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
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





Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Steam Plant Pressure SP reduction	Sustained reduction of pressure setpoint for steam plant from 9,2bar to 8,5bar	2023	Gas	188000
Adiabatic humidification	A robust and more efficient control of temperature and humidity in all production areas through the direct injection of humidity into the space instead of steam in the ducts.	2024	Gas	360000
Solar thermal system - Changing rooms	Replacement of conventional NG (Natural Gas) boiler to heat water for showering by renewable solar thermal heating system	2024	Gas	15600

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
Motor Replacement	Purchase and installation of more energy efficient motors.	2024/2025	Electricity	131164

PHILIP MORRIS BRASIL IND. COM. LTDA

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Optimization of administrative spaces	Optimization of administrative spaces	2024	Electricity	1524
Baseload assessment and reduction - internal energy audits	Audits and daily control of KPIs via boards and PROXIMA	2024	Electricity	2931
Baseload assessment and reduction – Primary AND secondary and Print Shop energy centerlines	Audits and daily control of KPIs via boards and PROXIMA	2024	Electricity	7480
Baseload assessment and reduction - GEMT	Audits and daily control of KPIs via boards and PROXIMA	2024	Electricity	7285





Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
level 4 - Secondary Link- Up and Primary Process	- A2 1 E80		partage	Ulmsonic desertion
Automatic Chillers' Cleaning	Project to Energy and Water consumption reduction	2024	Electricity	1000
Steam Traps Upgrade	Project to Energy consumption reduction	2024	Electricity	1000
Adiabatic Humidification	Project to Energy consumption reduction	2024	Electricity	6000
Shutdown CAEs ADM das 11h-14h	Shutdown of air conditioning in administrative areas at certain times	2024	Electricity	17349
Print Shop	Automation of the operation of exhaust fans to reduce consumption and Electro pneumatic valve Installation	2024	Electricity	901 +852 +295
Reduction cold water valve C1A and C1B	Centerline tuning	2024	Electricity	15812
Centralization of Dust central of Diet and Primary Process	Centralization of dust central	2024	Electricity	4125
Baseload Reduction (Trafo Removal-Print Shop)	Removal trafo 750KVA	2024	Electricity	7830
Lighting Print Shop	Lighting Print Shop	2024	Electricity	6879

Papastratos Cigarette Manufacturing Company, S.A.

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Scirocco	Better insulation under the dryer belt	2024	Gas	68000

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

Project nan	ne	Descriptio	n		2000	Year	Type of energy used	Emission reduction [kg CO2eq]
IREC Electricity	Renewable	Purchase Electricity	IREC	Certificates	Green	2023	Electricity	Green Electricity





Project name		Description	Year	Type of energy used	Emission reduction [kg CO2eq]
Ultrasonic detection	leakage		2023	Electricity	48914
Variable speed compressors	drive air		2023	Electricity	155805
Adiabatic installation	system		2023	Diesel	896795
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	Emission reduction [kg CO2eq]
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, 1 st 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, 2 nd 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
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
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	Renewabl e 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 CO2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2024	2024	Electricity	59082.4
Solar Panel	Implementing renewable energy by using sunlight as a source of energy	2024	Renewable Energy	30644
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° C), Variable speed drive (VSD) for exhaust > 5 KW	2023	Electricity	344	
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PT. HM Sampoerna - Sigaret Kretek Tangan (SKT) Rungkut-1

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2024	2024	Electricity	29541.2
Solar Panel	Implementing renewable energy by using sunlight as a source of energy (capacity 190 Kwp dan 39 Kwp)	2024	Renewable Energy	3675
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° 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 CO2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2024	2024	Electricity	129825
Solar Panel	Implementing renewable energy by using sunlight as a source of energy (capacity 155 Kwp)	2024	Renewable Energy	131268
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°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 CO2 eq]
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2024	2024	Electricity	122051
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 myd 150
Optimize utilization of utility	Optimize running time of Exhaust Fan, Optimize room temperature for server room (25° 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 2024	2024	Electricity	22578644
High efficiency chiller	High efficiency chiller and VSD installation aimed to increase utility system efficiency	2023/ 2024	Electricity	1218594
Idle/sleep mode for Secondary Equipment	Setting equipment in secondary area into idle/sleep mode during no production	2023/ 2024	Electricity	235779
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/ 2024	Electricity	682567
Improvement Compressor Efficiency	Install high efficiency compressor in 2019, 2023 and 2024 for all production area	2019/ 2024	Electricity	137689
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	Balancing of heating air flow to reduce steam consumption on annular dryer	2024	Gas	34898





Project name	Description	Year	Type of energy used	Emission reduction [kg CO2 eq]
steam consumption	ment swipping from street evenes 2024 Electricity 15 controlls		strictty	Creen ale
New Layout CSF Dryer	Replacement drying process on CSF from electric dryer to existing clove dryer	2024	Electricity	344372

PT Phillip Morris Indonesia - Karawang Plant

Project name	Description	Year	Type of energy used	Emission reduction [kg CO2 eq]
Solar Cell	Solar cell installed since 2017/2018 generates CO2 reduction in 2024	2018/2024	Electricity	274838
Green electricity	Buying green electricity since 2019 generates CO2 reduction in 2024	2024	Electricity	13862595
Idle/sleep mode for Primary Equipment	Setting equipment in primary area into idle/sleep mode during no production	2024	Electricity	223986
Maintenance switch installation for LOTO application	Install maintenance switch for energy segregation for LOTO application during CIL & Start Up Shutdown implemented in 2023 and 2024	2023/2024	Electricity	46859
Optimization lighting at Feeding and Cutting Area	Regroup lighting at feeding and cutting area to ensure optimal utilization	2024	Electricity	28104
HVAC AI	Optimize HVAC operation through utilization of Al	2024	Electricity	221619

Massalin Particulares S.R.L, Merlo, Argentina

Project name	Description	Year	Type of energy used	Emission reduction [kg CO ₂ eq]
Chilled water replacement	Install 3-way valves into 2-way valves that will modulate according to temperature area	2023	Electricity	16073
Transformer efficiency	Power transformer removal. Associated circuits will be relocated among the rest of the low voltage distribution cabinets	2023	Electricity	17235





Description	Year	Type of energy used	Emission reduction [kg CO2 eq]
Heat recovery equipment installation in condensate return line. This energy will be used to reheat boiler water (55° to 80°)	2023	Gas	13089
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	4109
Steam system equipment upgrade. Installation of Venturi steam traps	2024	Gas	106125
Recovery of condensate water from the steam line.	2024	Gas	50501
	return line. This energy will be used to reheat boiler water (55° to 80°) 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 Steam system equipment upgrade. Installation of Venturi steam traps	return line. This energy will be used to reheat boiler water (55° to 80°) Recover heat in vacuum systems exhaust. This 2023 energy will be recovered as boiler's burner air preheating. New pipes will be installed, and automation will be implemented Steam system equipment upgrade. Installation of 2024 Venturi steam traps	Heat recovery equipment installation in condensate return line. This energy will be used to reheat boiler water (55° to 80°) 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 Steam system equipment upgrade. Installation of Venturi steam traps Recovery of condensate water from the steam line. 2023 Gas Gas Gas

Philip Morris Operations a.d. Niš

Project name	Description	Year	Type of energy used	Emission reduction [kg CO ₂ eq]
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.	2024	Electricity	2411921
Adiabatic Humidification	Usage of high pressurize water for air humidification inside HVAC instead of steam.	2024	Gas	74322
Steam system equipment upgrade – Venturi steam traps	Upgrade of steam system equipment and implementing new steam traps.	2024	Gas	131157
Optimization of mechanical dry system	Direct drive for cooling towers opening.	2024	Electricity	11920
Baseload assessment and reduction	Secondary compressed air reduction.	2024	Electricity	22338





Phillip Morris Investments B.V. Jordan

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Centralized Quality Laboratory	Quality Laboratory and primary laboratory centralized in one laboratory to reduce the electrical load and consumption	2024	Electricity	33298
Ultrasonic humidification system in tobacco storage area and non-tobacco material buffer area	Replace the Steam System with Ultrasonic humidification system in tobacco storage area and non-tobacco material buffer area	2024	Electricity	58578

Philip Morris Romania SRL

Project name	Description	Year	Type of energy used	Emission reduction [kg CO ₂ eq]
Project One - Secondary production consumption KPI	Monitoring and improvement of production equipment consumption based on the of LV 3 meters installed on equipment	2024	Electricity	1122784
Project One - Primary production consumption KPI	Monitoring and improvement of Primary production equipment consumption based on the of LV 3 meters installed on equipment	2024	Gas	471346
AI HVAC	Optimize electricity consumption for conditioning by using Al tools	2024	Electricity	470581
AI HVAC	Optimize gas consumption used for ensuring humidity in production by using AI tools.	2024	Gas	257089
Utilities efficiency improvement	Improve performance of chilled water and compressed air system by elimination losses during operation	2024	Electricity	567242
Utilities efficiency improvement	Improve performance of steam system by eliminating losses during operation	2024	Gas	285097
Multiple Energy Saving initiatives	ES08.05 - Deaerator Vent Condenser ES08.09 - Open condensate tank Vent Condenser	2024	Gas	31482





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

Design to anno	Description		-	
Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Compressed air heat recovery	With the installation of the new compressor 315VSD, add the heat	2025	Gas	30000
	recovery			
Venturi Steam Traps	Remove hydrostatic steam traps and install venturi steam traps to decrease steam losses	2025	Gas	633000
Solar thermal panels installation for hot water production	Implement solar thermal panels on the roofs of the Production buildings	2026	Gas	296000

UAB Philip Morris Lietuva

Project name	Description	Year	Type of energy used	Estimated reduction [kg
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 electrical type steam generator. Steam boilers use gas constantly, generators can turn on/off without preheating.	2025	Fuel	65449
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/Fue	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
Heat recovery via Heat pump	On compressed air system loop	2025	Electricity/Fue	76654





Philip Morris CR a.s.

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
ES16.25 Steam system equipment upgrade - installation of Venturi steam	Installation of steam traps	2025- 2026	Fuel	59000
traps				
ES21 Thermal insulation in Primary equipment	Insulation of steam equipment in Primary	2025- 2026	Fuel	19000
Project ONE	Activities focused on production equipment efficiency improvement. Metering, KPIs, reporting tools development. Focus in secondary: Compressed air + electricity. Focus in Primary: Natural Gas (Fuel) + Steam (Fuel) + Electricity + Compressed air (electricity).	2025 – 2026 - 2027	Fuel, Electricity	To be evaluated

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

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Energy Efficiency Plan 2022 - 2025	Implementation of approximately 20 energy saving projects	2022/2025	Gas	750000
Venturi steam traps	Replacement of normal steam traps by Venturi technology to reduce the steam leakages to atmosphere	2023/2025	Gas	284809
Adiabatic humidification	Implementation of direct area humidification via water atomization to reduce steam consumption for HVAC	2023/2026	Gas/Electricity	588998
FTD heat recovery	Implementation of a heat exchanger on exhaust gas from Flash Tower Dryer to reduce gas consumption	2023/2025	Gas	25505
Photovoltaic Park	Installation of photovoltaic panels for solar energy use	2025/2026	Electricity	3735.2





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Hybrid Boiler	Installation of a boiler that runs on gas and electricity	2025/2026	Gas/Electricity	1150000
Primary Energy Efficiency	Process improvement to increase energy efficiency in primary processes	2025/2026	Gas/Electricity	17846
Airquest Project	Reduction of humidity parameters in productive areas	2025/2026	Gas/Electricity	26837

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

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 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
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

PHILIP MORRIS BRASIL IND. COM. LTDA

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Steam system equipment upgrade - Condensate	Steam Reduction consumption	2025	Steam	5000
recovery				
Upgrade CAG Trane / Chiller Optimizer	Upgrade electronic	2025	Electricity	13759
AHU Flowrate optimization EC Fans (Secondary and Print Shop)	Flowrate optimization gaining in Thermal load	2025	Electricity	108000





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Solar Thermal Renewable (Boilers)	Steam Reduction consumption	2025	Steam	38000
ES CO2EQ recovery system (DIET balloon)	Recovery System for CO2EQ	2026	Electricity	6859
Energy recovery to Diet process (Heat)	Heat energy	2026	Electricity	150175

Papastratos Cigarette Manufacturing Company, S.A.

Project name	Description	Year	Type of energy used	reduction CO2 eq]	[kg
Installation of GEMT meters	Installation of energy meters Level 4	2025	Gas	10000	Sol
Installation of GEMT meters	Installation of energy meters Level 4	2025	Gas	10000	
Venturi steam traps	Reduce steam loss from regular steam traps.	2025	Gas	150000	
Zero carbon technology project	Installation of electric boiler and Heat pumps to reduce the fuel consumption	2027	Gas	9500000	

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

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Energy Saving Initiative	HVAC Revamp	2025	Electricity	819409

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

Project name	Description	Year	Type of energy used	Estimated reduction CO2 eq]	[kg
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	
Solar Power Project	Generating 48% of daytime electrical energy via Solar Power	2024/2026	Diesel Oil/ Electricity	70800 (estimated saving in 202 YE)	24





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
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 Conservatio n Initiative	Conversion of Boiler #1 on LPG – for low throughput grades and installation of water heating jacket on boiler	2023/2025	LPG	176402 +96127
LPG Conservatio n Initiative	Condensate recovery Improvements -Increase Storage Capacity of Feed Water Condensate Tank	2023/2025	LPG	24696
LPG Conservatio n Initiative	Insulation Steam Energy Line -Insulation of Steam control valves & condensate line and tank	2023/2025	LPG	40202
LPG Conservatio n Initiative	Automation of Stem Dryer	2023/2025	LPG	19404
LPG Conservatio n Initiative	Seat regeneration Steam Valves -Seat regeneration/repair of all steam control valves	2023/2025	LPG	40202
Diesel Conservatio n 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 vehicles procurement	Evaluation of GHG emissions of new vehicles to be procured	2022/2025	Petrol	1200
Engine idling monitoring	Reduction in fleet CO2 EQ 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
Inverter AC	Replacement of Non-Inverter AC with Inverter AC to save electricity	2025/2026	Electricity	380.5





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
O2 Analyzer	Installation of O2 sensor on Boiler # 2 to reduce fuel consumption	2025	LPG	30
Inverter Fans	Replacement of fans with Inverter Fans	2025	Electricity	837
Redundant Lines Removal of CA	Removal of redundant lines in compressed air system to reduce losses	2025	Electricity	415

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 CO2 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 Link Up (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 Al	2024/2025	Electricity	360062

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

Project name	Description	Year		of	Estimated
			energy		reduction
			used		[kg CO2 eq]





Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2025	2025	Electricity	29541
Solar Panel	Implementing renewable energy by using sunlight as a source of energy in Plant Malang, Plant Rungkut 1 & Plant Rungkut 2	2025	Renewable Energy	3675

PT Hanjaya Mandala Sampoerna Tbk, Karawang Plant, Indonesia

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq
Steam Optimization	Reduce Steam flow from 400 kg/h to 350 kg/h for conditioning CRES line	2025	Gas	202008
Temperature Distribution Optimization	Adjustment air flow distribution in cut filler area that impact to shutdown 1 AHU	2025	Electricity	111951
Piping distribution optimization	Re-design piping distribution PPK-PPK-PPW- Clove- Clove & PPK-PPW- Clove	2025	Electricity	90475
FTD optimization	Automatic preheating FTD	2025	Electricity	80341
EC Fan installation	Installation EC fan for cut filler kretek production area	2025	Electricity	135312
Dryer Optimization on Primary SFP	Optimization driver on primary SFP by shutting down dryer during BCO and CIL	2025	Electricity	89958
Upgrade chilled water insulation	Upgraded material insulation for better insulation performance on chilled water utilities	2025	Electricity	29081
High efficiency compressor utilization	Utilization of high efficiency compressor as main supply for plant compressed air	2025	Electricity	89909
Green electricity	Buying green electricity from state-owned electricity company generates CO2 reduction in 2025 (based on yearly estimation).	2025	Electricity	37131068
Biomass Boiler	Biomass boiler implementation to produce steam by using biomass fuels (wood palette)	2026	Palm Kernel Shell / Wood palette	4298910





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Chiller Absorption	Chiller absorption installation which reuses heat from the new biomass boiler.	2026	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	2026	Palm Kernel Shell / Wood palette	12897963

PT Philip Morris Indonesia -Karawang International

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Optimization lighting at Feeding and Cutting Area	Regroup lighting at feeding and cutting area to ensure optimal utilization implemented in 2024 still generates CO2 reduction	2025	Electricity	28104
Optimization filter storage temperature	Adjusting air conditioner for filter non menthol storage temperature from 25C to 27C – 30C	2025	Electricity	12158
Optimization lighting at Secondary Production	Scheduling shut off lighting area at Secondary Production during standby hours (Friday Prayer)	2025	Electricity	496
Optimization Air Conditioning at meeting room	Scheduling shut off air conditioning meeting room secondary production on weekend	2025	Electricity	536
Optimization equipment operation	Shut off S-TRS during CIL and Friday Prayer	2025	Electricity	8096
Optimization vacuum usage	Optimization through switching venturi to centralized vacuum for CWL LU area	2025	Electricity	22513
Green electricity	Buying green electricity generates CO2EQ reduction in 2025 (based on yearly estimation)	2025	Electricity	11493614
Solar cell	Solar cell installed since 2017/2018 generates CO2EQ reduction in 2025 (based on yearly estimation)	2025	Electricity	150744
Biomass Boiler	Biomass Boiler installation to produce steam by using biomass fuels (wood palette)	2026	Palm Kernel Shell / Wood palette	584255





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Chiller Absorption	Chiller absorption installation that reuses heat from the new biomass boiler.	2026	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.	2026	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 CO2 eq]
Solar Plant	Install photovoltaic solar plant	2025/2026	Electricity	376886

Philip Morris Operations a.d. Niš

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
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.	2025	Electricity	19461538
Adiabatic humidification	Usage of high pressurize water for air humidification inside HVAC instead or steam	2025	Gas	87437,7
Baseload assessment and reduction	Secondary compressed air reduction	2025	Electricity	23353,8
Steam system equipment upgrade – Venturi steam traps	Upgrade of steam system equipment and implementing new steam traps.	2025	Gas	204854,2
Optimization of mechanical dry system	Direct drive for cooling towers opening.	2025	Electricity	11920





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Steam system equipment upgrade	Insulation of return condensate lines	2025	Gas	31810
Steam system equipment upgrade	Replacement of boilers with more efficiency	2025/2026	Gas	33309
Programmable schedule control	Programmable schedule control	2025/2026	Electricity	1402,5

Phillip Morris Investments B.V. Jordan

Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Economizer Activation in Boilers	Heat recovery for water infeed which will reduce the usage of LPG	2025- 2026	LPG	48299
LOTO project for Compressed air on main network and Linkups	Deployment LOTO for Compressed air reduce in shutdown to eliminate unnecessary air leakage	2025- 2026	Electricity	23575
Heat Pump Package – New bin filling stations & stem bin filling stations	Replace the old Heating, Ventilation, and Air Conditioning package with heat pump to reduce the electricity usage	2025- 2026	Electricity	214310
Water Evaporating Fans for stem bin filling station	Replace the old System with Water Evaporating Fans system in stem bin filling station	2025- 2026	Electricity	32937

Philip Morris Romania SRL





Project name	Description	Year	Type of energy used	Estimated reduction [kg CO2 eq]
Project One - Secondary production consumption KPI	Monitoring and improvement of production equipment consumption based on the of LV 3 meters installed on equipment, including compressed air consumption	2025 -2026	Electricity	1967000
Project One - Primary production consumption KPI	Monitoring and improvement of Primary production equipment consumption based on the of LV 3 meters installed on equipment	2025 -2026	Gas	2000000
Utilities efficiency improvement	Improve performance of chilled water and compressed air system by elimination losses during operation	2025 -2026	Electricity	1600000
Energy Saving initiatives ES 16.25	Install venturi traps with impact in condense recovery	2025 -2026	Gas	950000
Zero Carbon Tech Project	Decrease gas consumption by installing heat pumps, solar panel for e-Boiler	2025 -2026	Gas	4200000
Scirocco project	Improve performance of gas consumption by insulating the dryer surface	2025 -2026	Gas	500000

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 Verified Carbon Standard (VCS)¹, Climate Community and Biodiversity Alliance (CCBA)², Gold Standard³, and other offsets as endorsed in PAS2060.

To compensate residual **2024 GHG emissions**, PMI has selected a set of carbon projects as described in paragraph 4.2.

Credits were retired on 2025 September 24th and 25th

These projects are supported by publicly available project documentation on the <u>GSF Registry (goldstandard.org)</u>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 2024 emissions are:

#	Project Name		on credits ocation	Official project link
		tons	%	
1	GS2447 GS1265 African Biomass Energy Conservation PoA Malawi Biomass Conservation (5)	21896	35.2%	https://registry.goldstandard.org/projects/ details/360
2	Impact Carbon and myclimate Safe Water and Improved Cookstoves Global PoA - Uganda VPA	224	0.4%	https://registry.goldstandard.org/projects/ details/314
3	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	24000	38.6%	https://registry.verra.org/app/projectDetail
4	JARI/AMAPÁ REDD+ PROJECT	7259	11.7%	https://registry.verra.org/app/projectDetail/VCS/1115
5	Pacajai REDD+ Project	8770	14.1%	https://registry.verra.org/app/projectDetail/VCS/981
	01/01/202	62149	100%	7015 Feat 1 002 00

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)	2012	Pacajai REDD+ Project	01/01/2017- 31/12/2017
AR LF (MASSALIN Lrm)	4039	Pacajai REDD+ Project	01/01/2017- 31/12/2017
BR (Santa Cruz)	2544	Pacajai REDD+ Project	01/01/2017- 31/12/2017
CA (RBH Quebec)	226	UNITOR REDD+ PROJECT	26/04/2018- 31/12/2018



CH (PMP SA Neuch)	1094	GS2447 GS1265 African Biomass Energy Conservation PoA Malawi Biomass Conservation (5)	2016
CZ (Kutna Hora)	2376	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
GR (PAPASTRATOS)	12022	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID (PTPMI Karawang)	732	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID (PTSIS Sukorejo)	8	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID (SAMP Karawang)	224	Impact Carbon and myclimate Safe Water and Improved Cookstoves Global PoA - Uganda VPA	2016
ID (SAMP Karawang)	4891	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID (SAMP Karawang)	501	JARI/AMAPÁ REDD+ PROJECT	15/02/2016- 14/02/2017
ID (SAMP Sukorejo)	3886	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID SKT (Kraksaan SAMPOERNA)	23	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID SKT (Malang SAMPOERNA)	2	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID SKT (Rungkut 1 SAMPOERNA)	47	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
ID SKT (Rungkut 2 SAMPOERNA)	13	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	01/01/2021- 15/04/2021
IT (PM MTB RRP GF)	23937	UNITOR REDD+ PROJECT	26/04/2018- 31/12/2018
IT (PM MTB RRP ZP)	738	UNITOR REDD+ PROJECT	26/04/2018- 31/12/2018
JO (Amman)	284	JARI/AMAPÁ REDD+ PROJECT	15/02/2016- 14/02/2017





KZ (Almaty)	2656	UNITOR REDD+ PROJECT	26/04/2018- 31/12/2018
LT (Klaipeda)	175	Pacajai REDD+ Project	01/01/2017- 31/12/2017
PH (PMFTC Batangas)	2156	Pacajai REDD+ Project	01/01/2017- 31/12/2017
PH (PMFTC Batangas)	1550	UNITOR REDD+ PROJECT	26/04/2018- 31/12/2018
PK (PMPK Sahiwal)	893	UNITOR REDD+ PROJECT	26/04/2018- 31/12/2018
PK LF (PMPK Mard)	1438	JARI/AMAPÁ REDD+ PROJECT	15/02/2016- 14/02/2017
PT (TABAQUEIRA)	3543	JARI/AMAPÁ REDD+ PROJECT	15/02/2016- 14/02/2017
RO (Bucharest)	16178	GS2447 GS1265 African Biomass Energy Conservation PoA Malawi Biomass Conservation (5)	2016
RO (Bucharest)	1493	JARI/AMAPÁ REDD+ PROJECT	15/02/2016- 14/02/2017
RS (DIN)	4337	GS2447 GS1265 African Biomass Energy Conservation PoA Malawi Biomass Conservation (5)	2016
SN (Dakar)	287	GS2447 GS1265 African Biomass Energy Conservation PoA Malawi Biomass Conservation (5)	2016
TR (PMTM)	6401	Pacajai REDD+ Project	01/01/2017- 31/12/2017
ZA (LEONARD DINGLER)	247	Pacajai REDD+ Project	01/01/2017- 31/12/2017

4.3 Amount of credits purchased

Credits have been ordered by PMI for the period covering 1st of January 2024 – 31st December 2024. The amount of credits purchased is 62149 tons of CO2 equivalent, it is composed by two contributions:

- o 60339 tons of CO2 equivalent, amount evaluated for this application period
- o **1810 tons of CO2 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 2024.

https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=164255 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=251870 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=187127 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=132238 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=312382 https://registry.verra.org/myModule/rpt/myrpt.asp?r=206&h=312383 https://registry.goldstandard.org/batch-retirements/details/221346 https://registry.goldstandard.org/batch-retirements/details/221345

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

Verification Statement Number: CCP267919.PMI.2024.20251024

The Carbon Neutrality Declaration as presented in its Qualifying Explanatory Statement (QES), for the application period 01/01/2024 - 31/12/2024 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: Andrew James Collins

Authorised by:

Pamela Chadwick

Business Manager SGS United Kingdom Ltd

Verification Statement Date: 31 October 2025

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

SGS United Kingdom Ltd

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Member of SGS Group

Registered in England No. 1192935 Registered Office. Rossmore Eustress Park, Ellesmere Port, Caeshire, CHSS JEN







Schedule Accompanying Greenhouse Gas Verification Statement CCP267919.PMI.2024.V1 20251024

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 01/01/2024 – 31/12/2024, 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 (PMf) 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 01/01/2024 – 31/12/2024.

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 July to October 2025. 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
- Third application period: Calendar Year 2024

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





SGS

Manufacturing affiliates:

Affiliate	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 Sampoema, TbkSKT Plant Rungkut 1
ID SKT (Rungkut 2 SAMPOERNA)	PT Hanjaya Mandala Sampoema, Tbk., SKT Plant Rungkut 2
ID SKT (Kraksaan SAMPOERNA)	PT Hanjaya Mandala Sampoema, 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 CO₂ equivalent emissions, carbon neutrality declaration and QES for the period 01/01/2024 – 31/12/2024 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 01/01/2024 – 31/12/2024 are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

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





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	ne uncertainten ste nu known for plu Buideline for Nelfonal Greenhout e my Activity data 7% - Emission factor 7%
1.2	Mobile combustion sources	Transportation of employees and goods with cars under affiliate control.	Included	Lett it beares on so no not sembini tu
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	Control of the second
2.2	Heat, steam and/or cold consumption	Purchase of heat, steam or cold energy not produced at operation site.	Included	and property of the
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 "2025 UC file Cluster 1I")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:



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

	Α			Step 1-2				Step 3				
		0		D	E	F	0	H	1	4	K	-
	Autivity Data (e.g. Quantity of East used)	Unit used to measure Autivity Data	Uncertainty of activity data (a) (Confidence Merval	CSHCI emission faetor	Lint of CHIG emission James (forks CO25)	Unsertainty of emission factor (Confidence premius)	COZ emesions in ky	CO ₃ emissions in metris tenties	Uncertainty of calculated emissions	Certainty Flanking	Auntiary Variable I	Audia Valable
	rancerray		Transparent in Europeania			THE STREET PROPERTY.	A'D	0/1000	JAY 1	17-11-15-61	[HT]	10
Management of the Control of the Con	\$100.0E	D.I	4.50%	56.10	14/002/07	4.800	50,100,09	76.97	4.82%	Good	6,27	28.54
ample Source I	BOLGE	0.3	46-5505			The second second					1000	A COLUMN
Source description		MI	4-7th	9:04	ASCOUPPAN	-J-781	51,950,4209	53,950,43	4.92%	Good	5,340,82	****
	M102643923.25 41949239.02	MJ	4-700	0.04	Ag CO2 / MJ	46-7.0%	24(4,172)5	2,634,17	+6.9.2%	Good	265.72	70,508
LPG Discret or Fuel oil light EL	W000013.07	Mi	41-7-0ts	0.07	Lg CO2 / MJ	-2:7 fm	1,950,063,05	1,759,76	47-3.3%	Good	904.64	10,391
	10/15/157.05	MAL	41-7 (h)	0.08	N/g COQ / PA/	J. 761	275,417.10	279.40	4-324	Good	27.67	795.5
Domate	4125045.32	MJ	46.7 (D)	0.54	NaCO21L	41:7.0%	329,799.52	\$26,50	d-2.8%	Oscord	22.35	1046
Fuel oil		194	41785	0.17	kgCOZ/L	48 7.8hi	9.17	0.56	W. S.St.	Good	0.00	0.00
Fleet Blodleset	100	-	41-Tibs	0.01	No COUTL	4A-7.6%	141	6.00	4.23%	Good	0.00	0.00
First Buorthatol	06.90	-	el-78%	1.07	NaCO21L	47.755	9.00	0.00	al- 6.7%	Good	0.08	8.00
Fleet Natural gast	0.00	M	46.78%	0.07	RECOLIMI	40.7.0%	594.06	0.03	45.8.8%	Good	18.6	0.00
Petrol	NEWS MS		al-740	0.00	Ag CO27AVA	44.7 Etc.	0.00	(181)	J. 9.95	Good	0.99	8.00
Electricity - Market based	348432298.47	KVb.	+0-7.0%	2.51	kgCO27L	41.700	11,366,71	91.37	45.33%	Good	2.65	94.8
Fleet Floi Olecel	32379.32		+1-7.0%	200	No CO271	41-7101	922,697,03	812.70	4-995	Gend	\$2.43	6,735
Fleat Fuel Petrot	289493.04		+261	8.00	195.0	4.100	0.00	0.00	4-276	High	0.00	15.00
CCI2 in DET Process (IC Plans Blogerist)	218860.00	Na.	+6.20%	1.00	198.0	3-10%	1124 (034.00	1304.03	4-22%	Hgh	25.0	675
COZ in Clief Propess	1524604.68	Na .	47.2300	100	7819	-	0.00	8.00	47-D-014	High	15,780	8.0
			-			Company of the second	8.00	0.00	4-00%	High	0.08	0.0
							0.00	1.00	A-80%	High	19.003	0.0
							0.00	0.00	J-00t	High	0.00	0.0
THE RESERVE THE PARTY OF THE PA					-		900	0.00	-1-00K	High	0.00	0.0
							0.00	0.60	J-880	High	0.00	9.00
							0.00	0.60	4.00%	High	0.00	0.0
					-		9.00	11.60	J-60x	High	0.00	0.0
					-		0.00	8.00	J-88%	Hop	0.00	9.0
							8.00	0.00	J-0.0%	High.	0.60	9.0

Table 8.1 - Uncertainty calculations

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



	Uncertainties	due to emission Facto	rs 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%
CH4	Biomass Burning	50%	50%	100%
CH₄	Oil and Nat. Gas Activities	55%	20%	60%
CH ₄	Rice cultivation	3/4	1/4	1
CH ₄	Waste	2/3	1/3	byn bna 4 cash k
CH ₄	Animals	25%	10%	20%
CH ₄	Animal waste	20%	10%	20%
N₂0	Industrial Processes	35%	35%	50%
N₂0	Agricultural Soils		- Course	2 orders of magnitude
N ₂ O	Biomass Burning			100%

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

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

Table 8.2 - IPCC uncertainty data





9 Annex E – Voluntary offset program

In this annex, shortlist of projects chosen for compensation of 2024 emissions.

#	Project Name		n credits cation	Official project link
	The state of the s	tons	%	
1	GS2447 GS1265 African Biomass Energy Conservation PoA Malawi Biomass Conservation (5)	21896	35.2%	https://registry.goldstandard.org/projects/ details/360
2	Impact Carbon and myclimate Safe Water and Improved Cookstoves Global PoA - Uganda VPA	224	0.4%	https://registry.goldstandard.org/projects/ details/314
3	Installation of high efficiency wood burning cookstoves in Malawi - Project 2	24000	38.6%	https://registry.verra.org/app/projectDetail/VCS/2372
4	JARI/AMAPÁ REDD+ PROJECT	7259	11.7%	https://registry.verra.org/app/projectDetail/VCS/1115
5	Pacajai REDD+ Project	8770	14.1%	https://registry.verra.org/app/projectDetail
		62149	100%	





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.

SGS Site Visits - Data Verification - Sustainability - Global - Documents

Philip Morris Products SA







Kutna Hora- Philip Morris CR a.s.





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_20250319_113517

With the Issuance of this Cancellation Statement, the indicated guarantees of origin are no longer tradable. Orward safe 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 fisted 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, 100 00, Czech Republic
Company identification number:	49903209
VAT identification number:	CZ49903209
Beneficiary information:	
Type of beneficiary:	End-consumer - Legal entity
Name:	Philip Morris CR a.s., Kutná Hora
Address:	Vřížená 1, Kutná Hora, 28403, Czech Republic
Company identification number:	14803534
VAT identification number:	CZ14803534
Cancellation information:	
Consumption period:	2024-01-01 - 2024-12-31
Cancellation date:	2025-03-19
Energy carrier:	Electricity
Amount of energy (MWh):	24232
Registry cancelled from:	CZ 22 OTE, a.s.
Type of cancelled certificates:	Guarantee of origin
Cancellation category/purpose:	Disclosure
Note:	The stated Redemption Purpose is Scope 2 reporting and CDP disclosure for reporting period 2024 in Czech Republic

3/19/2025

O OTE, a.s.

Page 1

SOROROWSKS 19277

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IČ 25403918 DIČ CZ36403918 Banks: 193, A.R. Parginitrans. CRI vectory Mile v Princ publ. III.





OTE-W

Overview of cancelled guarantees of origin



10. passers 110. EZDANSTIS Benja 10. S.A.

Papastratos Cigarette Manufacturing Company, S.A.



Cancellation Statement
This cancelation Statement acts as a receipt for the Guarantees of Origin as listed below and for the purpose shown.

The environmental qualities of the associated energy have been consumed and will no longer be used for disclosure purposes in Greece This Cancellation Statement and these Certificates may not be transferred to any party after their the energy supprise or end-cossumer identified in this Cancellation Statement.

	-		
Pe	rferi	ned	by

erfermed by		On behalf of	
Control Section Section	AHMOZIA ERIXEIPHZH HAEKTPIZHOY A.E.	Name of Brindle org	RAMAETPATOX ABEE -
Contract Financial Contra	28×EQZ9×58	Communication 6	2024-01-01
All Succion	EL090000045	Consumption and	2024-03-31
estant)	520803900000000302	Civilia of Consumption	Greece
(0.000)	Greece (interconnected)	Location of Results any	Greece
popul	XAAKOKONAYAH 30	Shage Calmony	Disclosure
motive Stories	GR10432	Name of Bertelleysty.	End Consumer

2024071500004

Απόδειξη Προέλευσης της Ηλεκτρικής Ενέργειας που καταναλώθηκε



Firaeus, 2024-07-15



This Cancellation Statement acts as a receipt for the Guarantees of Origin as listed below and for the problem.

The environmental qualities of the associated energy have been consumed and will no longer be used for disclosure purposes in Greece. This Cancellation Statement and these Certificates may not be transferred party other than the energy supplier or end-consumer identified in this Cancellation Statement.

-			
Account the city Manager	анмогія еліхетрігін Наектрітмоу а.е.	Name of Britishness	CIATIAZ TPATOX ABEZ Popastretos
STREET STREET LAND	ZUXEQZ9X58	Consumption State	2024-04-01
of the same	EL090000045	Generalizer first	2024-08-30
No. of Contract of	\$208039000000000302	Environ of Colombian	Greece
tion and	Greece (interconnected)	because of female cary	Greece
triane.	XAAKOKOMAYAH 30	Owner Dampury	Disclosure
	GR10432	Name of Barrollo and	End Consumer
(No.	ABHNA		

2024092500011

Απόδειξη Προέλευσης της Ηλεκτρικής Ενέργειος που καταναλώθηκε

In the event of discrepancies between the information contained in this cancellation statement and in DAPEEP Registration Database, the latter shall prevail



Piraeus, 2024-09-25







Performed by		On behalf of					
Anna Anna Marine	ANMOZIA ETIXEIPHZH HAEKTPIZMOY A.E.	Approximately provided the state	CANAETPATOL ABEL - PROSSUMOS				
400000 10000	28XEQ29X58	Consumation 9449	2024-07-01				
AND DESIGNATION .	EL090000045	Consulation 510	2024-09-30				
	\$20803900000000302	District Constitution	Greece				
	Greece (interconnected)	$\{(x_i,y_i),(x_i)\in B_i\cap y_i\in A_i\}$	Greece				
	DE HAYANGKONANAK		Disclosure				
	GR10432	Agency of Specific and	End Consumer				
	AGHNA						
	Greece						

2024-11-20 12 34 2024112000008

Απόδει Τη Προέλευσης της Ηλεκτρικής Ενέργειας που καταναλώθηκε 12 498

ation contained in this cancellation statement and in DAPEEP





Cancellation Statement
This Cancellation Statement acts as a recept for the Guarantees of Origin as listed below and for the purpose shown

Performed by		On behalf of	
Source Forder Name	AHMOZIA EKUKEIPHZH HAEKTPIZMOY A.E.	Name of Secolar by	CACALTRATOR AREZ -
Subject Reside Code	28KEQZ9X56	(images 5ro 1	2024-10-01
SAT Bumpay	EL09000045	Assumption End	2024-12-31
Author	520803900000000302	Courty of Consumption	Greece
Services	Greece (interconnected)	Souther different any	Greece
Storet	XAAKOKONAYAH 30	those Lattery	Disclosure
Best of Course	GR10432	Special developing	End Consumer
Cay	ABHNA		
	Greece		

Personal and Solid	2025-02-20 11 00
Transaction National	202502200000011
Carolinian Paracet	Απόδειξη Προέλευσης της Ηλεκτρικής Ενέργεισε που κετευολιάθηκε.
DESCRIPTION OF STREET	11 528

Perseus, 2025-02-20



Piraeus, 2024-11-20







Philip Morris Lietuva

Cancellation Statement

This consoliation statement ook as a receipt for the certificates listed below and for the purpose shown. With the Carealates Titutement, released on the Transaction Date, the Indiocede certificates are bringe tradeble Onward size of the Carealates are problemed. The architecturated qualities of the accession to account of the Carealates are public of the architecturated qualities of the accession of the accession of the Carealates may not be transferred to any active date these incention should be carealated to any contracting manner and these certificates may not be transferred to any





Transaction details		From account		Beneficiary	
Transaction type	Status	Organization name	Organization ID	Name of Beneficiary	Country of consumption
Concellation	Completed	SCIENCE UAB	27XZ10FL6N	Philip Morris Lietuva, LIAN	Lithweile
Transaction number	Volume	Domein	Deettaat sehila	Location of beneficiery	Consumption period
20250320000000009	21430 MWh	LRhuenie	u	Vilnious př. 16, LT-94104 Kielpods	01/01/2024 - 31/12/202
Transaction start time	Transaction completion	Account number		Licago typo	Cannolistion purpose
20/03/2025, 10 54	11me 24/03/2025, II 02	642002406741099117		Diselecute	The stated Redemption Purpose is Scope 2
		Street	ZIP otido		reporting and CDP
Transaction requested 20/03/2025, 10:54		Ukmerges g. 223	LT-07156		electosure for reporting period 2024 in Littuenia
		City	Cleuntry	Type of benefictary	
Public Statement	Standard	VILNISIE	Lithunnia	End consumer	
bring group stand andly	EECS electricity				

Dortificate Number (From To)	Veluma	Unit	Production period	Strating slate	decuting equitally	leasing hedy	Tracking	Lormork	Plant name and Silve	Operational	Energy source sode sod some	Technology and againers
12 7745442 53 40 77465243	792	Mayer	01/06/2084 31/06/2024	199/11/20194	FR	Powerand	MOTY,50	Productors support	PAJAC EEL EN SE GRANICO(SET 36136660000010174	21,709,79619	P0:1000100 Removestate/ Mostranismi source or sthat/fated	Tobolet West
H (1997)	36.0	Liber	81/68/2024 31/68/2024	89/11/2004	/R	Personal	BOILILEOT BOITY, SO	Production support	SEPE LA PATURE - SETSENSSORIUTSOUP 8	01/04/2619	P01000100 - Renouphle/ Modraphed section in Other/Whyd	Toboost - West/ Onelese
A STATISTICS THAT THE STATISTICS IN THE STATISTI	399	MRN	91/08/2004	99/11/2020	F28	Pewscoost	BECK, ELECT	Production	MET LEMONT	81/04/0019	F81000100	THROUGH WHILE
												Page
Cortificada Hyrobar (Frees-To)	Velume	Unit	Production parted	dots .	hasuring souriery	body	Trosting aphores	Earmork	Plost none and 638N	Operational date	Stoorgy square code and name	Tooknalogy sodo and some
			31/06/0024				HOTY, SE	migrafi	MINISTER COLUMN		Newworks Meetingson course or silver Ward	Strature
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.707	heren,	01/00/00E4- 21/00/2004	09/11/0004	Pat	Penetral	RIGHTY, 60	Production topport	BOLID LIE HANTIGE TIMMOS- BUT DECEMBED TATA B	21 ATT / Single	Parameter - Parameter - Machinesal trucks or structure -	Tenner West
<i>y</i>)	\$79	589/6	21-08/2004 31-08/2004	199/1/(0004	FIL	Pawament	MERCHANTY OR	Production region?	PARC ESLIDH BE PRICHOST S0130000000012470 2	11 (M.5046	renational femological Medianinal source or other West	TEGODO Winds Constitute
	1786	Minds	81/08/2024 31/08/2024	0%11/8084	m	Procured	SHEATY JOB	Production support	PAINC EVALUE OF WHICH, BU CAMERISMS N°T Law Funds do Castelle go 10° Mesonson 18466	01,710,0019	Revision to the second	TEGRAL Winds
NEW TOTAL	1339	Maile	01/08/2004 F1/08/2004	00/11/2004	m	Pendotest	MICH_DUNCY RIGITY_DO	Production support	PERME INLETONE 900 TALDALB 24: 362000000: 3470 3	0°/°2.3830	Paragraphics Recognition structure or other Wind	750000 - Wang Oroline
B071110	-	Minis	81/09/2004 - 31/09/9004	09v11/2024	770	Presental	BBBLILECT BBETY_DB	Production magnet	PERMEDICALING INJ LINUISE - 20130000000010134P9 6	Mitarese	FD-000 100 - Temprophilar (Alaboritat couppe at other/Wind	Tapanic - world
The second secon	ten.	tyren.	81/08/2004 - 91/08/0004	8% 11/2894	FR	Powerinol	NG PLICT	Production toppert	PARC ESLATA SE LAFASOSSOS TETTS 34" TERROSSOSSOS TETTS 5	39-11/38/9	Personalities Personalities Machinelited income or other Wind	Statute Winds
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	311	Mole	01/05/2004 31/05/2004	110×11/20024	PR	Present	ADDR. SLEET FASTY, SO	Production support	EXTENSION SANTERNE - SIP SWINNINGS 13712 2	01/04/2000	PERSONAL PROPERTY AND ADMINISTRATION OF STREET, MINISTRATION OF STREET, MINIST	Salarania - Marily.
1 (CANODA) (949	Allpolis	Programs.	MN11/2014	п	Preemo	MICH BLICT MICTY 09	Production resport	16 CHOOS 20 3600000013947 8	07/08/2005	Porpolition- fernmedity) Mechanish assure or other Wind	TOROGO, Wind' Strature
	760	Math	01.00/2004= 21/05/2004	00/17/2004	**	Perument	HIND, BLDCT PACETY, 300	Production Support	CHEMIN BIR HARMSHITTE SUR- 20120000000017049 Z	01/04/2005	Pondigoriph Personalitati Medicontati strateg or plinas Wool	TEXABLE Woold
7 MARINE	327	Medic	P100/204	99-11/2014	TR.	Personnel	BUTY of	Production Inspert	PARC EQUIDY BE MEHARCBURT 541200000000614: 54 2	Pallage	Percental course or stops West Stops	Drofted world
THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANS	384	Mesob	91/09/2004 31/09/2004	10/05/2004	n	Fredry	ROTY AN	Production support	Parks.: a48090683000000 4	11/01/2008	Parametrial Numerodisi Mathemati source or plant "Block	Temanos Windy Dredvare
7.17	276	MINN.	3015/20041 3015/2002	17-13/2004	SM.	Desproyed. plates	BOCK BLUCT BOCK PERSON	No support	Minjust Mindaget	28/08/00/7	Por post total - Improveding	Moself West Strategy

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Correlation Homber afrons for	Athony	Unit	Probator	date:	nountry	tody	Solomes.	Lormark	Plant rares and GSSN	Operational	Spengy source code and applies	Taximology and and name
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of the second se	(as	MND	01-1984 M 1984	24/1/556.4	R	Paulment	NOTE BE	No employ?	NAME OF THE AMERICAN PARTY OF THE AMERICAN P	74 GE/0013	Territorio	Plant Bred Brakes
p.	174	LOVE	89" 1-8864 20" 3-8864	\$4195084	n	Parrent	1000E, 6L.007 RMQ/77 ,300	ha upperl	Here de Pindreale (H 16)* Militario possibilità S	20000	Ported/102 Representative Magninguistic project for other/holes	THOUGH White
	-	N/Appli	5.190	Services.	Filt	Personal	Mary or	he support.	DOLLOW TOWNSON THE HOLLAND DISCHARDS ENGLISH I 14 - MARKETON COLUMN THE	1971/864	NUMBERO SERVICES Management of the column of the World	Tollier Treat
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	3134	See-	907 1-9004 1073-2004	01/13/0004	FT	-	NUMBER OF	Probation region?	Person littles do Streets - Little communication S	16/13/9881	Personalist Personalist Magnetic poster or other Total	Titolina Winds
- MAN		Name of	2011 1014 20: 1.004	91700E 4	34	-	MATE OF	Productions (MADER)	PE has Maurite 8 benefits and 100 b	and the	for-interests foremodelar Management papers or solverhilms	Penalty Novel
	176	1440	2017 TOTAL	SALES AND	64	4	TRUE_BLOTT PARTY (A)	Production	Pursua Siffice de Cabbyll Herita - Sementalistique 170 2	APARATOR.	Personalizati Section of Student or other World	TOURS THE P
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Philip Morris Lietuva RGGO Cancellation Statement

Transaction details

Transaction details		From account		Beneficiary	
Transaction type Cancellation	Starus Completed	Organization name Kinect Energy Green Services AS	93X002090E	Name of Beneficiary UAB Philip Moms Lietuva	Country of consumption Lithuence
Transaction number 20250711000000129	Volume 3798000 kWh	Business D S0090			Location of beneficiary Europe
Transaction start time 11/07/2025, 12 10	Transaction completion time 11/07/2025, 12 10	Domein Green Gas Certification Scheme	Domain code G8-GGCS	Consumption period 01/01/2024 - 31/12/2024	Usage type Disclosure
Transaction requested 11/07/2025, 12 10		Account number 643002406493020902		Cancellation purpose For the benefit of UAB Philip Merris Lietuve for	Type of beneficiary End consumer
Message to Receiver	Standard GGCS_BIOMETHANE	Street 1 Fantoffvegen 38	ZIP code 5072	2024 consumption.	
		City Bergen	Country Norway		

Transaction certificates

Page 1 tof .

Cart froste Number (Fiorn-To)	Volume	Limit	Production period	innuing date	tenung country	leaving body	Trading schemes	Cormork	Plant name and GSRM	Operational date	Energy source code and name	Technology code and some
643002406493000100101010140219180 643002406493000010000101260170	1250000	4.000	25/03/2024 14 06/2024	16/09/2004	50	Great Cas Larsfeater Scharg	CHANE NO EN LANE	Production Support	meath Farm Energy Ent 64300004004000000 3	81/12/2015	00001 Bones (Imperfel) Desification (Protet/Coproduct)	G818008 Anserobit disposar
6.430003406.4830000100011076406409 6.430023406.483000010001107866.2391	1200000	apath	25/10/0084 24/00/2024	10/10/00/4	cae	Street Las Lathaner Schane	STHANG, RE STHANG, RE SE	Production support	recent Faces Energy End 6-1/02/2 MB-1970/E3/07/6 S	8013/2m5	(Justice Stampes (JusticeStati) Connection Product/Corpoducti	0018000 Amproduction
643003406493000010002390440594 643003436493000010002391890598	1250830	1,001	25/08/2024 14/12/2024	2540.765	60	Brown East Carofication Scharte	0005 BON 61 HANG PG 00	Policies	House Fairs (Invited 19) 19 19 19 19 19 19 19	81/12/2015	SOCIET Survey (Jrepschot) Castricatori Product Coproduct)	OCTOORS Attached Improve
5.4000,400.4000000 10000,13403600 6.4000,400.4000000 10000,10001547	Asset	a title	25/13/2004 - 21-12/2024 -	96/05/2005	CB	Brown Gas Certification Scheme	SSCY, BOM ETHANE, RG SO	Production subserf	CMT- SACKEDAGE RESIDENT	BV12/2014	600531 Bitmans (Uniquestical) Classification (Product/Gironduct)	CO1000 - American dependen





PHILIP MORRIS BRASIL IND. COM. LTDA.

Redeemed Certificates

De	vice C	ountry of Origin	Energy Source	Technolog	gy Support		ssioning ate		on (CO ₂	
	Apodi III	Brazil	Solar	PV Groun		2018	11-28	0.0	000000	
				Redeemed	Certificates					
F	From Certifi	cate ID	To Cert	tificate ID	Number of Certificates			od of action	Issu	
0000-	·0222-2043-(5231.000000		944-1373.99999	9 5 143.00000	0 Incl	00:00:00	05-01 0 - 2024- 3:51:55 C)	Institu	
F	From Certifi	cate ID	To Cert	tificate ID	Number of Certificates			od of action	Issue	
0000-	0222-2043-1	1951.000000	0000-0222-20	43-4626.99999	9 2 676.00000	0 Incl	2024- 00:00:00 04-30 2 (UT	Institu Totu		
F	rom Certifi	cate ID	To Cert	tificate ID	Number of Certificates			od of action	Issu	
0000-	0221-0121- 1	i 931.000000	0000-0221-01	21-4493.99999	9 2 563.00000	0 Incl	00:00:00	01-01 0 - 2024- 3:56:14 C)	Institu Totu	
	Country	of F	nergy	Production De	vice Details	Commissio	nina	Carbon	\(CD_{*}\)	
Device	Origin		ource	Technology	Supported	Date	nmig		on (CO ₂ / MWh)	
Apodi	Brazi	i !	Solar	PV Ground mounted	No	2018-11-	-28	0.00	0000	
				Redeemed C	ertificates					
From	m Certifica	te ID	To Certifi	cate ID	Number of Certificates	Offset Attributes	Period Produc		Issue	
	2024-01-01 21-0119-4736.00000 0000-0221-0120-0008.999999 5 273.000000 Incl 01:31 23:57:31					Instituto Totum				
0000-022	21-0119-473	36.000000 0	000-0221-0120	-0008.999999	5 273.000000	Incl	00:00:00	2024- :57:31		
	21-0119-473 m Certifica		000-0221-0120 To Certifi		5 273.000000 Number of Certificates	Incl Offset Attributes	00:00:00 01-31 23	2024- :57:31)	Totum	
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Froi	m Certifica	te ID	To Certifi	cate ID	Number of Certificates 161.000000	Offset Attributes	00:00:00 01-31 23 (UTC Perior Produc 2024-0 00:00:00 04-30 23	- 2024- :57:31) d of etion 4-01 - 2024- :57:43		
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Redeemed Certificates

From Certificate ID	To Certificate ID	Number of Certificates	Offset Attributes	Period of Production	Issuer
0000-0220-2971-3487.000000	0000-0220-2971-3550.999999	64.000000	Incl	2024-01-01 00:00:00 - 2024- 01-31 03:48:07 (UTC)	Institute Totum
From Certificate ID	To Certificate ID	Number of Certificates	Offset Attributes	Period of Production	Issuer
0000-0220-2971-3451.000000	0000-0220-2971-3486.999999	36.000000	Incl	2024-01-01 00:00:00 - 2024- 01-31 03:48:07 (UTC)	Institute Totum
From Certificate ID	To Certificate ID	Number of Certificates	Offset Attributes	Period of Production	Issuer
0000-0220-2971-3551.000000	0000-0220-2971-3600.999999	50.000000	Inci	2024-01-01 00:00:00 - 2024- 01-31 03:48:07 (UTC)	Instituto Totum





Indonesia

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

PT Philip Morris Indonesia Karawang International, Karawang plant

PT Hanjaya Mandala Sampoerna, Tbk. SKT Malang plant

PT Sampoerna Indonesia Sembilan, Sukorejo Pasuruan plant

PT Hanjaya Mandala Sampoerna, Tbk. SKT Rungkut 1 plant

PT Hanjaya Mandala Sampoerna, Tbk. SKT Rungkut 2 plant

PT Hanjaya Mandala Sampoerna, Tbk. SKT Kraksaan plant



This Redemption Statement has been produced for

PMI COMPANY PT INDONESIA

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

101 538 000000

I-REC Certificates, representing 101 \$38 000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Factories SAMP Karawang, SAMP Sukoreja, Kraksaan Sampoerna, Malang Sampoerna, Rungkut 1 Sampoerna Rungkut 2 Sampoerna, PTSIS Sukurejo and PTPMI Karawang

in respect of the reporting period.

2024-01-01 to 2024-12-31

The stated Redemption Purpose is

Scope 2 Reporting and CDF stuctorare for PMI Company PT Indonesta, Extended SAMF Statemeng, SAMP Suppose Strategies

Lamponing, Molany Sempourne, Suppose Strategies Sampourne, PSS Suppose and PTFMI Suppose Sampourne, PSS Suppose and PTFMI Suppose Sampourne, PSS Suppose and PTFMI Suppose Sampourne, PSS Suppose Sampourne,







PT Hanjaya Mandala Sampoerna, Tbk. Sukorejo Plant - Biogenic CO2 certificate





CERTIFICATE OF ORIGIN

This document confirms and/or certifies that PT Molindo Inti Gas has supplied 323.840 kgs of Biogenic CO2 to PT HM Sampoerna in the month of January 2024. The liquid $\rm CO_2$ 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 12th of February 2024.

Signed by,

Yohanes Kurniawan

General Manager





CERTIFICATE OF ORIGIN

This document confirms and/or certifies that PT Molindo inti Gas has supplied 83.482 kgs of <u>Biogenic CO2</u> to PT HM Sampoerna in the month of February 2024. The liquid CO₂ 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 5th of March 2024.

Signed by,









This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 205.123 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of March 2024. The liquid CO₂ 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 2nd of April 2024.

Signed by,

Yohanes Kurniawan General Manager





CERTIFICATE OF ORIGIN

This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 119.937 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of April 2024. The liquid CO₂ 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 6th of May 2024.

Signed by,









This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 75.418 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of May 2024. The liquid CO₂ 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 4th of June 2024.

Signed by,

Yohanes Kurniawan General Manager

PT MOLINDO INTI GAS



CERTIFICATE OF ORIGIN

This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 242.669 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of June 2024. 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 8th of July 2024.

Signed by,









This document confirms and/or certifies that **PT Molindo inti Gas** has supplied 222.833 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of July 2024. The liquid CO₂ 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 7th of August 2024.

Signed by,

Yohanes Kurniawan

General Manager





CERTIFICATE OF ORIGIN

This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 200.000 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of August 2024. The liquid CO₂ 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 15th of November 2024.

Signed by,









This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 182.762 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of September 2024. The liquid CO₂ 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 October 2024.

Signed by,

Yohanes Kurniawan General Manager

mg | PT MOLINDO INTI GAS



CERTIFICATE OF ORIGIN

This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 183.932 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of October 2024. The liquid CO₂ 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 15th of November 2024.

Signed by,









This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 113.614 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of November 2024. The liquid CO₂ 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 9th of December 2024.

Signed by,

Yohanes Kurniawan

General Manager





CERTIFICATE OF ORIGIN

This document confirms and/or certifies that **PT Molindo Inti Gas** has supplied 162.237 kgs of <u>Biogenic CO2</u> to **PT HM Sampoerna** in the month of December 2024. The liquid CO₂ 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 20th of January 2025.

Signed by,





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



This Redemption Statement has been produced for

PHILIP MORRIS (PAKISTAN) LIMITED

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

6 562 000000

I-REC Certificates, representing 6 562.000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Mardan -Sahiwal Pakistan

in respect of the reporting period

2024-01-01 to 2024-12-31

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for Philip Morris (Pakistan) Limited, Mardan and Sahiwal factories







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



This Redemption Statement has been produced for

PMI COMPANY MASSALIN PARTICULARES SRL.

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

22 173.000000

I-REC Certificates, representing 22 173.000000 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

2024-01-01 to 2024-12-31

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for PMI company Massalin Particulares SRL., Factories Massalin Merlo and Massalin Lerma.





All





Redeemed Certificates

Production Device Details

Device	Country of Origin	Energy Source	Technology	Supported	Commissioning Date	Carbon (CO ₂ / MWh)
Parque Eo ico Madryn	Argent na	Wind	Onshore	Yes	2018-11-01	0 000000

Redeemed Certificates

From Certificate ID	To Certificate ID	Number of Certificates	Offset Attributes	Period of Production	Issuer
0000-0220-7945-1699 884000	0000-0220-7945-2851 883999	1 152 000000	Inc	2024-01-01 - 2024-01-06	Instituto Argentino de Normalización y Certificación
From Certificate ID	To Certificate ID	Number of Certificates	Offset Attributes	Period of Production	Issuer
0000-0220-7945-1620 884000	0000-0220-7945-1699 883999	79 000000	Inc	2024-01-01 - 2024-01-06	Instituto Argentino de Normalización y Certificación

Production Device Details

Device	Country of Origin	Energy Source Tech	snology	Support	mel.	issioning ate	Carbon (CO ₂ / MWh)
Parque Eolico I os Teros I	Argentina	Wind Or	shore	No	202	0-09-15	0 000000
		Redeeme	d Cert.f	ates			
From Certificate	TD	To Certificate ID		nber of	Offset Attributes	Period of Production	Issuer
0000-0221-5621-6164	290000 0000-	0221-5622-5254 2899	99 090	9	Incl	2024-08-01 - 2024-09-30	Instituto Argentino de Normalizacion y Certificacion
From Certificate	10	To Certificate ID		nber of	Offset Attributes	Period of Production	Issuer
0000-0221-5621-3627	290000 0000-0	0221-5621-5736 2899	99 109	2 000000	Ind	2024-08-01 - 2024-09-30	Instituto Argentino de Normalización y Certificación
From Certificat	e ID	Yo Certificate ID		mber of		Period of Production	Issuer
0000-0221-3258-432	1 000000 0000)-0221-3259 -406 3 999	999 74	9 000000	Inc	2024-01-12- 2024-01-17	Instituto Argentino de Normalizacion y Certificacion





Philip Morris Operations a.d. Nís

Status Completed

04/02/2025, 10:14

Standard EECS electricity

Cancellation Statement

Transaction details

Transaction type Cancellation

Transaction number 20250203000000092

03/02/2025, 9 50 Transaction requested 03/02/2025, 9 50

Public Statement https://gres.gresel.pom/ em/public/ carcellatematatement/ https://de. etab.4ebi-8540-19c3cdd d440c

This cancellation statement acts as a receipt for the certificates based below and for the purpose shown. With this Cancellation Statement, "Alleased on the Transaction Date, the indicated certificates are no longer trislated Onward sele of this Cancellation Statement is prohibited. The environment 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 agreement generated by the control of t

1	pacified	below	

From account Organization name EPS AD Beograd Organization ID 47XQ8DZW5L

Domain code

Account number 64300240674109#837

PO bax 13 ZIP code 11000

Country Serbia

Beneficiary

Country of consumption Serbia Name of Beneficiary PHILIP MORRIS OPERATIONS A.D - NIS

Location of beneficiary Serbia Consumption period 01/12/2024 - 31/12/2024

Usage type Disclosure

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 tradeler. Orward safe of this Cancellation Statement is prohibed to the environmental qualities of the associated between the control of the control of the secondary have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplies or end consumer aspecified below.

Transaction details From account Transaction type Cancellation Status Completed

Volume 1423 MWh

Transaction completed 11/03/2024, 14 56 Public Statement Standard EECS

Transaction number 20240311000000097

Organization name EPS AD Beograd Domain code RS ZIP code 11000 Country Serbia



Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIS

Location of beneficiary Serbla Organization ID 47XQ80ZW5L

Usage type Disclosure

Country of consumption Serbia

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With the Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Orward sale of this Cancellation Statement is probibled. The announcement guidatines 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 believe.

Transaction details

Cancellation Statement

Transaction type Cancellation Status Completed

Transaction completed 12/04/2024, 11.19 Transaction started 11/04/2024, 14.56

Standard EECS

Public Statement https://prex.grexel.com/ en/public/

From account

Sireei Balkanska Account number 643002406741098837 ZIP code 11000 Country Serbia City Beograd





Country of consumption Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIS

Location of beneficiary Serbia Organization ID 47XQ80ZW5L

Usage type Disclosure

Cancellation purpose Supply to the consum 02/2024





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	
Transaction number 202405100000000001	
Transaction started 10/05/2024, 13.29	
Public Statement	

en/public/

https://grex.grexel.com/ cancellationstatement/2f c2712b d85f 47b6 9f7d b1ab35ab2f4e

Status Completed

Volume 1864 MWh

Standard

EECS

Transaction completed

11/05/2024, 12.16

From account

Organization name	Organization
EPS AD Beograd	47XQ80ZW5
Domain Serbia	Domain code
Account number 643002406741098837	Street Balkanska
PO box	ZIP code
13	11000
City	Country
Beograd	Serbia

ID

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D - NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/03/2024 - 31/03/2024	Usage type Disclosure
Cancellation ournose	Type of heneficiary

Supply to the consumer in 03/2024

e of beneficiary

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	Status	Organization name	Organization ID
Cancellation	Completed	EPS AD Beograd	47XQ80ZW5L
Transaction number	Volume	Domain	Domain code
20240626000000136	1750 MWh	Serbia	RS
Transaction started	Transaction completed	Account number	Street
26/06/2024, 13.52	27/06/2024, 10 27	643002406741098837	Balkanska
Public Statement	Standard	PO box	ZIP code
https://grex.grexel.com/ en/public/	EECS	13	11000
cancellationstatement/2	(6)	City	Country
d3b09c4-de2d-4490- bee6-5f8d884110b6		Beograd	Serbia

Beneficiary	
Name of Beneficiary PHILIP MORRIS OPERATIONS A.D NIŠ	Country of consumption Serbla
Organization ID 47XQ80ZW5L	Location of beneficiary Serbla
Consumption period 01/04/2024 - 30/04/2024	Usage type Disclosure
Cancellation purpose Supply to the consumer in 04/2024	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.

Status

Completed Volume 1635 MWh

Transaction completed 12/07/2024, 12.58 Standard EECS





Transaction details

Transaction type

Cancellation

Transaction number 20240711000000275
Transaction started 11/07/2024, 15.07
Public Statement https://grex.grexel.com/ en/public/ cancellationstatement/ de948577- c398 4fid 86da 17bcc70
3273c

From account

From account

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

Beneficiary	
Name of Beneficiary PHILIP MORRIS OPERATIONS A.D NIŠ	Country of consumption Serbia
Organization ID 47XQ80ZW5L	Location of beneficiary Serbia
Consumption period 01/05/2024 - 31/05/2024	Usage type Disclosure
Cancellation purpose Supply to the consumer in 05/2024	Type of beneficiary End consumer





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

> Volume 2215 MWh

Standard

EECS

Transaction number 20240808000000146
Transaction started

08/08/2024, 9.50

Transaction completed 08/08/2024, 12.47

Public Statement https://grex.grexel.com/ en/public/ cancellationstatement/7 41337e4-8687-49c8-85fa-8affb1085fed

From account

Organization name EPS AD Beograd Organization ID 47XQ80ZW5L

Domain Serbia

Street Balkanska

ZIP code

PO box

Beograd

Account number 643002406741098837

> 11000 Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ

Organization ID 47XQ80ZW5L

Consumption period 01/06/2024 - 30/06/2024

Cancellation purpose Supply to the consumer in 06/2024 Country of consumption Serbla

Location of beneficiary Serbla

Usage type 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.





Transaction details

Transaction type Cancellation

Status Completed

Transaction number 20240912000000048

Volume 1820 MWh

Standard EECS electricity

Transaction started 12/09/2024, 7.43 Transaction completed 12/09/2024, 13.27

Transaction requeste 12/09/2024, 7.43 Public Statement

https://grex.grexel.com/ en/public/ cancellationstatement/ d2428167-7a4d-47b9-879 4-d63e7f837191

From account

Organization name EPS AD Beograd

Domain Serbia

Account number 643002406741098837

Street Balkanska

PO box

City Beograd Organization ID 47XQ80ZW5L

Domain code RS

ZIP code 11000

Country

Serbia

X

d

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ

Organization ID 47XQ80ZW5L

Consumption period 01/07/2024 - 31/07/2024

Cancellation purpose Supply to the consumer in 07/2024 Country of consumption Serbia

Location of beneficiary Serbia

Usage type Disclosure

Type of beneficiary End consumer





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.





Country of consumption

	From account	
Status Completed	Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L
Volume 1994 MWh	Domain Serbia	Domain code RS
Transaction completed 07/10/2024, 13.43	Account number 643002406741098837	
	Street Balkanska	
Standard EECS electricity	PO box 13 City Beograd	ZIP code 11000 Country Serbia
	Completed Volume 1994 MWh Transaction completed 07/10/2024, 13.43	Status Completed EPS AD Beograd Volume 1994 MWh Serbia Transaction completed 07/10/2024, 13.43 Street Balkenska Standard EECS electricity Organization name EPS AD Beograd Account number 643002406741098837

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ

Organization ID 47XQ80ZW5L Location of beneficiary

Consumption period 01/08/2024 - 31/08/2024

Usage type Disclosure

Cancellation purpose Supply to the consumer in 08/2024

Type of beneficiary End consumer

Cancellation Statement

Transaction details

Transaction requested

https://grex.grexel.com/ en/public/ cancellationstatement/5

4cb2170-7317-420a 8821 -cBad82f5f5d0

06/11/2024, 13.55

Public 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 Orward 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.





Country of consumption

Organization name Transaction type Status Cancellation Completed EPS AD Beograd Transaction number 202411060000000244 1856 MWh Transaction completed 07/11/2024, 7.35 Account number 643002406741098837 Transaction started 06/11/2024, 13.55

Standard

EECS electricity

Street Balkanska

PO box 13

City Beograd

From account

Organization ID

47XQ80ZW5L

Domain code RS

ZIP code

11000

Country Serbia

Beneficiary

Name of Beneficiary PHILIP MORRIS OPERATIONS A.D. - NIŠ

Organization ID 47XQ80ZW5L

Location of beneficiary Serbia Consumption period 01/09/2024 - 30/09/2024 Usage type Disclosure

Serbia

Cancellation purpose Supply to the consumer in 09/2024

Type of beneficiary End consumer





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.





party other than the energy sup	plier or end-consumer specified	pelow			
Transaction details		From account		Beneficiary	
Transaction type	Status	Organization name	Organization ID	Name of Beneficiary	Country of consumption
Cancellation	Completed	EPS AD Beograd	47XQ80ZW5L	PHILIP MORRIS OPERATIONS A.D NIŠ	Serbia
Transaction number	Volume	Domain	Domain code	Organization ID	Location of beneficiary
20241218000000141	1846 MWh	Serbia	RS	47XQ80ZW5L	Serbia
Transaction start time	Transaction completion time	Account number 643002406741098837		Consumption period 01/10/2024 - 31/10/2024	Usage type Disclosure
18/12/2024, 11.16	19/12/2024, 7.56				
		Street		Cancellation purpose	Type of beneficiary
Transaction requested 18/12/2024, 11.16		Balkanska		Supply to the consumer in 10/2024	End consumer
		PO box	ZIP code		
Public Statement https://grex.grexel.com/	Standard EECS electricity	13	11000		
en/public/		City	Country		
cancellationstatement/ cfd1a49e-		Beograd	Serbia		
e916-45a6-9dfd- edcc55317b57					

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		From account		Beneficiary	
Transaction type Cancellation	Status Completed	Organization name EPS AD Beograd	Organization ID 47XQ80ZW5L	Name of Beneficiary PHILIP MORRIS OPERATIONS A.D NIŠ	Country of consumption Serbia
ransaction number	Volume	Domain	Domain code	Organization ID	Location of beneficiary
20241230000000164	1642 MWh	Serbia	RS	47XQ80ZW5L	Serbia
fransaction start time	Transaction completion time	Account number 643002406741098837		Consumption period 01/11/2024 - 30/11/2024	Usage type Disclosure
10/12/2024, 14.09	31/12/2024, 8.06				
		Street		Cancellation purpose	Type of beneficiary
Fransaction requested		Balkanska		Supply to the consumer in 11/2024	End consumer
		PO box	ZIP code		
ublic Statement	Standard	13	11000		
tips://grex.grexel.com/	EECS electricity	0.0000000000000000000000000000000000000			
n/public/		City	Country		
ancellationstatement/ c10ec5f-328f-4510-		Beograd	Serbia		





Philip Morris Investments B.V. Jordan



This Redemption Statement has been produced for

PMI COMPANY PHILIP MORRIS INVESTMENTS BV. JORDAN

by

ENEL X ADVISORY SERVICES S.R.L.

confirming the Redemption of

3 316.000000

I-REC Certificates, representing 3 316.000000 MWh of electricity generated from renewable sources

This Statement relates to electricity consumption located at or in

Factory Amman Jordan

in respect of the reporting period

2024-01-01 to 2024-12-31

The stated Redemption Purpose is

Scope 2 Reporting and CDP disclosure for PMI company Philip Morris Investments B V. Jordan, factory Amman







Philip Morris Romania SRL

Statnett



Cancellation Statement

This cancellation statement provides the proof of origin for \$1 870 MWh consumed energy.

This cancellation statement proves that \$1 870 Guarantees of Origin has been cancelled in the Norwegian Energy Certificate System (NECS).

Performed by		On behalf of	
Account Holder Mame	AFS Energy b.v.	Name of Beneficiary	Philip Morris Romania SRL,
Account Holder Code	08XR25CS6E		factory Bucharest
VAI Number	NL808506432B01	Consumption Start	2024-01-01
Account	707052300001192317	Consumption I nd	2024-12-31
Domain	Norway	Country of Consumption	Romania
Postal Code	1012 JW	s ocation of Beneficiary	Philip Morris Romania SRL, factory Bucharest
City	Amsterdam	Usage Category	Disclosure
Country	Netherlands	Danys Caregory	Disclosure
	Tree de la contraction de la c	Type of Beneficiary	End Consumer

Transaction Information

Transaction Date	2025-03-18 11:13
Transaction Number	2025031800232
Cancellation Purpose	The stated Redemption Purpose is Scope 2 reporting and CDP disclosure for reporting period 2024 in Romania.
Volume Cancelled (sum)	\$1.870

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 2025-03-18, 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, 2025-03-11

Ole Jacob Høyland Director, market operations Statnett SF





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



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

4 601.000000

I-REC Certificates, representing 4 601.000000 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

2024-01-01 to 2024-12-31

The Stated Redemption Purpose is

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







Tabaqueira- Empresa Industrial Tabacos S.A





Cancellation Statement - Guarantees of Origin

This Constitution Indiament Lettings that the float orders of this inspiritual interester have been consisted. The conformation income and it we energy assumed with the Counterior of their product in the control of the related Counterior of their product in the Counter of the Product Counter of the Counte

This Statement can be solidated on the 6500 per to fatter. James and I wong the Consultation Code previous here.

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Account	198100035	Plaine	Iberdinia Cientes Portugal Unipestoa: ¿da.
VAT	PTS02124003	Address	Avenda () João II, Edificio Meridiano nº 30, Piez J 1990 392 unites Portugal

Type	Consumidor final	Account	Não Registado
Marrie	TARAGURINA EMPRESA INDUSTRIAL TARAGUS.	VAT	P\$1000.54284
Address	Av. Alfredo da Srive, Nr. 35	Consumption Country	Portugal
	2619 002 Bis de Moure Portugal	Consumption Domain	PT Fortugal Continents:
belivery Point Codes	PT900230023009077111 FT900200011	T248240HF FT90020003032077HB	My Processoroscos 1838-16 PT0002-200

Carronflightion ID	362775	Validation Code	THERESONAL
Document Issuance Date	2023-08-03 ¥1	Canceled By	中学15 用的
Centellation Date	25-03-2025	fir of Cancelled Guarantees	21416
GO purpose	Disclarate	Energy Carrier	Electricity
Contomption Period	2024 01 01 2024 12 31		
Contracto(*)			

CECTRICA NACIONAL S.A. Com 2255 M RTLT 45 45 MG Rogan, Cuananteen of Origin Connection Location Portuge





END OF THE DOCUMENT

CARBON NEUTRAL DECLARATION CLUSTER 1

November 2025

Irene Pinto Director Manufacturing Sustainability PMI Operations November 2025

Michael Scharer VP Global Manufacturing PMI Operations