Greenhouse Gas Emissions Inventory 2024

eccaplan



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INSTITUTIONAL

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ENGIE BRASIL ENERGIA



ENGIE Brasil Energia, a leader in renewable energy in the country, operates in the generation, commercialization, trading, transmission of electricity, and gas transportation segments, being present in all regions of Brazil.

At the end of the fourth quarter of 2024, our installed capacity totaled 9,5 GW, operating a generation park of 11.265,5 MW composed of 115 power plants. Of these, 11 are hydroelectric and 104 are complementary sources, including two biomass plants, 75 wind farms, two Small Hydroelectric Power Plants (SHPs), and 25 solar plants. Out of the 115 plants, 111 are fully owned by the company, while four are operated in partnership with other companies.

In the transmission segment, the Gralha Azul, Novo Estado, and Gavião Real Transmission Systems are fully operational. In gas transportation, we operate through our equity participation in Transportadora Associada de Gás (TAG).

Since 2023, 100% of our installed capacity in the country has come from clean, renewable sources with low greenhouse gas emissions, a position reinforced by the construction of new wind and solar power plants.

Our Numbers and Achievements

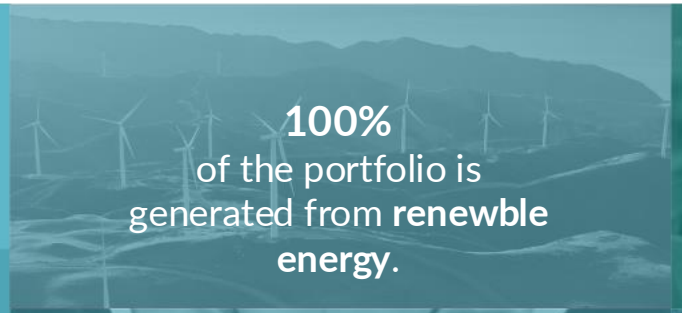
Launch of the **Supplier Descarbonization Program.**

Participation in COP29, held in 2024 in Azerbaijan, where we were recognized with the "Guardian for the Climate" honor from the UN Global Compact due to the Supplier Decarbonization Program.

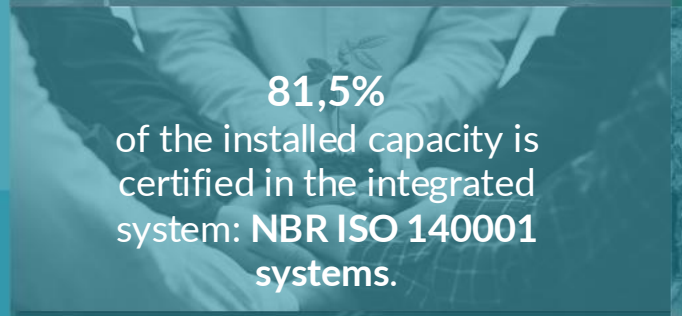
Score A in the CDP Climate Report, representing an improvement compared to the previous score (Score B).

Obtaining the **Selo Clima Paraná** for the Hidrelétric Plant Salto Osório, Hidrelétric Plant Salto Santiago and the Transmission System Gralha Azul;

Training of 309 employees through the **“Mural do Clima”**.



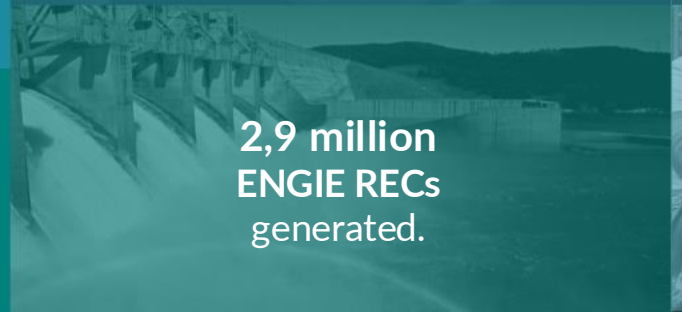
100%
of the portfolio is generated from **renewble energy**.



81,5%
of the installed capacity is certified in the integrated system: **NBR ISO 140001 systems**.



74 thousand
carbon credits sold.



2,9 million
ENGIE RECs
generated.



255.636
seedlings
planted and donated.



99,8%
of solid waste
recovered.

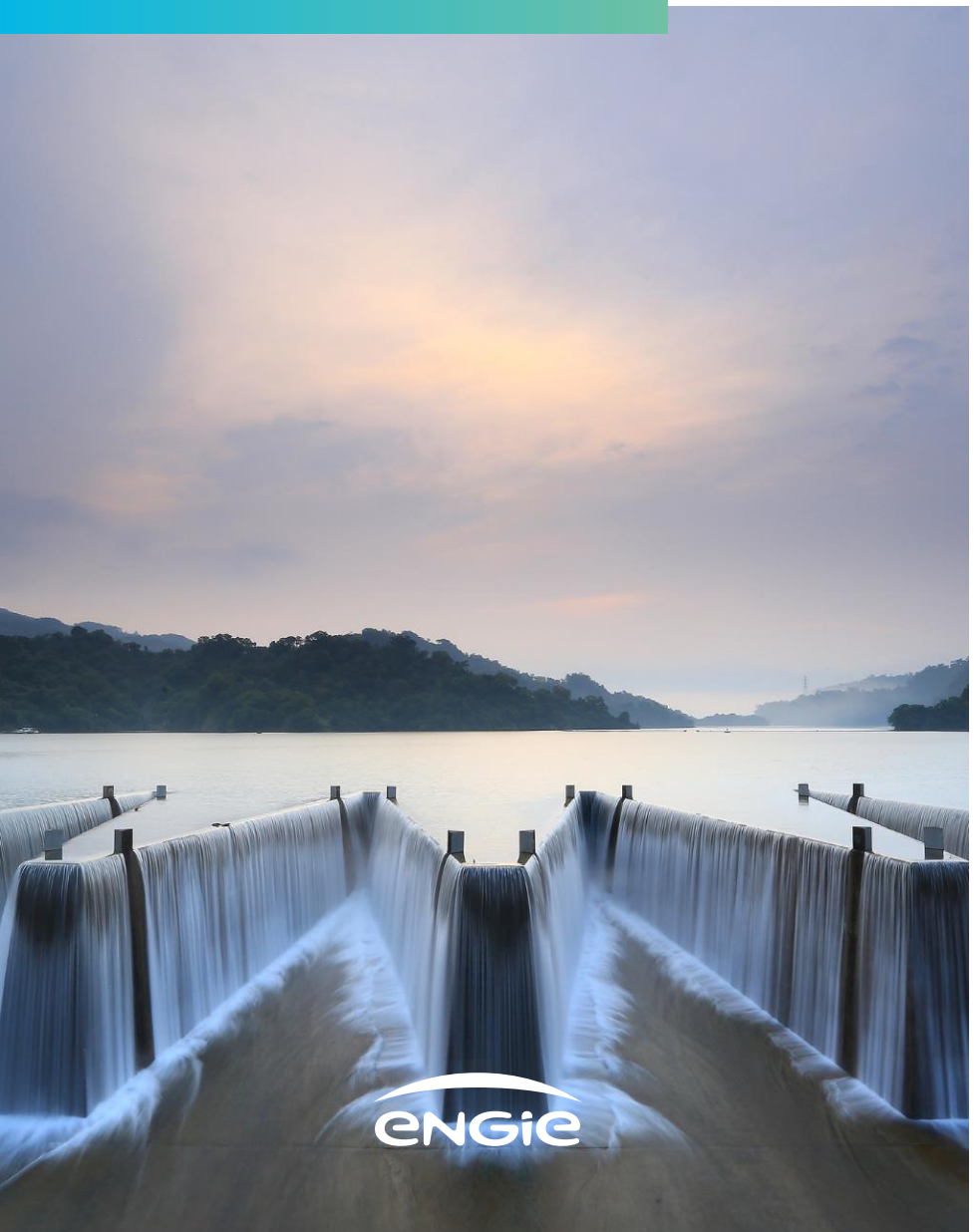


13
projects registered under the MDL.



122.251 thousand
people reached through **visitation and enviromental education programs.**

Strategies and Commitments of the Climate Journey



ENGIE Brasil Energia's Climate Journey is a climate governance platform that consolidates the Company's strategy into three main pillars:

Management Pillar: Conducting Greenhouse Gas (GHG) inventories, providing training and capacity-building programs, and preparing internal and external reports such as CDP, DJSI, and GRI. The company also focuses on stakeholder engagement, monitoring national and international regulations, and offsetting residual emissions through the purchase of carbon credits. Additionally, ENGIE maintains rigorous control over its GHG emissions, following recognized methodologies such as the GHG Protocol and the ISO 14.064:2022 standard.

Mitigation Pillar: ENGIE has set GHG emission reduction targets for 2025 and 2030, based on a comprehensive emissions assessment that includes both direct operations and the value chain. To achieve these targets, decarbonization projects have been implemented, such as replacing fossil fuels with renewable energy and engaging suppliers in science-based reduction goals.

Adaptation Pillar: ENGIE has developed adaptation plans for all its assets to enhance climate resilience. These plans focus on strategies and actions to manage impacts and risks associated with climate change, considering projections and multiple possible future scenarios. The Company is also committed to continuously managing climate-related operational risks, assessing specific vulnerabilities by geographic area, and developing nature-based solutions that support climate mitigation and biodiversity conservation.

Strategies and Commitments of the Climate Journey

	Management	Mitigation	Adaptation
TARGETS	• Engage 100% of key Scope 3 offending[1] suppliers to set science-based targets by 2025. • Conduct two annual training sessions (applicable to employees, Board of Directors, and Administrative Council) on climate change.	• Reduce the intensity of GHG emissions (Scope 1, 2, and 3) by 30% by 2025 and 56% by 2030. • Expand renewable energy generation by 3.8 GW by 2030.	• Expand renewable energy generation by 3.8 GW by 2030.
COMMITMENTS	• Monitor and record GHG emissions across the value chain through audited and third-party certified GHG inventories, as well as disclose them to society. • Offer customers products that help reduce their carbon footprint. • Encourage R&D projects and applications aimed at energy efficiency, climate mitigation, and adaptation. • Select and evaluate suppliers based on sustainability criteria. • Contribute to the energy transition, guided by a just energy transition.	• Foster opportunities in green hydrogen. • Seek solutions for CO_2 absorption, capture, and removal. • Maintain carbon stocks through the preservation of natural areas under the Company's ownership, property, and concession.	• Continuously manage climate risks and opportunities, preparing assets for the impacts of climate change, assessing vulnerabilities, and developing adaptation plans. • Develop nature-based solutions that support climate mitigation and biodiversity conservation. • Support climate-positive impact solutions in communities.

Notes:
1 Key offending suppliers account for 70% of Scope 3 emissions (Category 1 and 2).
2 Tasks considering the base year 2021, including the calculation base or data from the Jorge Lacerda Thermoelectric Complex and the Pampa Sul Thermoelectric Plant.
3 New assets will be covered within two years after entering operation/acquisition.

For further information on the Company's strategy and reduction initiatives, refer to the 2021 Sustainability Report and the Climate and Nature Notebook.



METHODOLOGY

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Methodology

The Greenhouse Gas (GHG) Emissions Inventory is developed in alignment with the concepts, principles, and guidelines established by the Greenhouse Gas (GHG) Protocol methodology, adhering to its specifications for GHG Emissions Inventories.

In accordance with the Brazilian GHG Protocol Program, the Inventories must encompass the seven types of Greenhouse Gases (GHG) included in the Kyoto Protocol reporting framework: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), and sulfur hexafluoride (SF_6).

Furthermore, the Montreal Protocol incorporates ozone-depleting substances such as hydrochlorofluorocarbons (HCFCs), which also contribute to global warming.

The scientific basis for assessing the impact of emissions from different gases is grounded in the Global Warming Potential (GWP), in accordance with the IPCC Fifth Assessment Report (AR5), DEFRA (Department for Environment, Food and Rural Affairs), and EBE (Energy Base Entity). The guidelines of ISO 14064, which addresses the quantification and reporting of greenhouse gas emissions, were also followed, ensuring the transparency and accuracy of the data presented.

Each Greenhouse Gas (GHG) has an associated Global Warming Potential (GWP), which measures the extent to which each gas contributes to global warming. The GWP is a relative value that compares the warming potential of a specific quantity of gas to the same quantity of CO_2, which, by standardization, is assigned a value of 1. The GWP is always expressed in terms of CO_2 equivalence (CO_2e).

Methodology

GHG	GENERATING SOURCES	GWP Global Warming Potencial
CO_2 Carbon Dioxide	Burning of fossil fuels (diesel, natural gas, kerosene, gasoline, and liquefied petroleum gas) by mobile and stationary sources. Additionally, CO_2 emissions are related to waste treatment and the use of agricultural fertilizers.	1
CH_4 Methane	Combustion of fuels by mobile and stationary sources, fugitive emissions in natural gas distribution lines, and the decomposition of organic matter in solid waste treatment processes.	28
N_2O Nitrous Oxide	Burning of fossil fuels (such as diesel, natural gas, kerosene, and liquefied petroleum gas) by mobile and stationary sources. Additionally, N_2O emissions are related to waste treatment and the use of agricultural fertilizers.	265
SF_6 Sulfur Hexafluoride	Linked to industrial foundry activities and used as an insulating gas in electrical equipment. Its emissions occur due to leaks during the manufacturing, use, and disposal of this equipment.	23.500
HFC Sulfur Hexafluoride	Emissions linked to refrigeration systems.	HFC134A – 1.300 HFC32 – 677 HFC125 – 1.923 R407C – 1. 624 R410A – 1.924
HCFC Hydrofluorocarbon	Emissions linked to refrigeration systems.	HCFC-22 – 1.760 HCFC-141B – 782

Source: Programa Brasileiro GHG Protocol

The table outlines the emission sources of the gases and the GWP values utilized in the Inventory

Data Collection and Responsabilities

ENGIE has established a structured system to manage its **Greenhouse Gas (GHG) Inventory**, which includes the designation of individuals responsible for data collection and reporting, as well as those tasked with conducting a critical analysis of the results. Since 2010, the inventory has been audited by an independent firm, and the collected data is disclosed in the **Sustainability Report** and the **GHG Inventory**, which are accessible on ENGIE's website, as well as on the **CDP** and **ICO2** platforms.

The preparation of this Inventory was carried out in collaboration with **Eccaplan**, a consultancy specializing in sustainability solutions, which assisted in quantifying GHG emissions according to the organizational boundaries, reference period, and base year defined by ENGIE.
Emission sources and sinks were identified and prioritized within the Company's organizational structure, considering emissions of **CO_2, CH_4, N_2O, SF_6, HFCs**, and **HCFCs** based on the mapped emission sources and data availability. Additionally, the inventory also accounted for **CO_2 emissions from renewable sources**.

For gases not listed in the **Kyoto Protocol** but regulated under the **Montreal Protocol**, the use of **HCFC-22 (R-22)** and **HCFC-141b** was identified, properly quantified, and reported in a dedicated section.
All inventory calculations were performed using **CERENSA**, a GHG emissions management platform utilized by ENGIE Brasil, with an emissions factor database curated by Eccaplan. The Eccaplan technical team periodically updates the system with emission factors based on international methodologies, and the emission factors are aligned with the **Brazilian GHG Protocol Program**, Calculation Tool, Cycle 2025.

The information flow for the preparation of the inventory followed the sequence of activities outlined below:

1. Identification of Focal Points and Training on Climate Change and Use of the CERENSA Platform
2. Data collection and reporting on the CERENSA platform. Submission of data in Excel spreadsheets to ECCAPLAN.
3. Critical analysis of input data and greenhouse gas (GHG) emissions by the ENGIE Enviromental Management and ECCAPLAN
4. Data input into ECCAPLAN's GHG emissions calcution tool and preparation of results.
5. Approval of the Inventory and disclosure on the company's website and frameworks, such as CDP and ICO2 by ENGIE.

Inventory Reference Period and Base Year

This inventory covers the amissions generated by ENGIES's activities in the year 2024, including all direct emissions and a portion od indirect emissions, encompassing all the companies with operational ventures within the group.

The base year is a crucial reference point for the consistente comparison of atmospheric emissions over time. In the case of ENGIE, the base year for the Greenhouse Gas (GHG) emissions inventory is 2021. This means that all current emissions will be assessed in a relation to that year.

In 2023, the base year was recalculated due to the decommissioning of termal power plants in a addition of new categories in Scope 3.

Operational Boundaries

ENGIE Brasil Energia (EBE) records all its Scope 1 (direct), Scope 2, and all applicable sources of Scope 3 (indirect) emissions. A comprehensive overview of the activities included in each scope is outlined on the following page.

The inventory also accounts for biogenic CO2 amissions generated from the combustion of biomass fuels in stationary equipment, such as sugarcane bagasse and in vehicles, such as etanol and biodiesel. Additionally, the inventory includes avoided emissions, the carbon stock of green áreas maintained by the company, and biogenic emissions/removals related to land use changes that affect carbon stocks.

Operational Boundaries

Scope 01

- **Agricultural Activities:** Emissions related to the use of products such as fertilizers in agricultural areas.
- **Stationary Combustion:** Emissions from stationary combustion for energy generation, whether electricity, steam, or heat, using generators, boilers, or engines.
- **Mobile Combustion:** Emissions associated with the operation of company vehicles and their combustion.
- **Effluents:** Emissions generated by the internal anaerobic treatment of liquid effluents.
- **Fugitive Emissions:** Emissions of substances such as sulfur hexafluoride (SF_6) from electrical equipment, and hydrofluorocarbons (HFCs) linked to the use of refrigeration equipment or fire extinguishers.
- **Land Use Change:** Emissions caused by the licensed removal of areas with native vegetation.
- **Solid Waste:** Emissions from chemical reactions during composting and waste treatment at disposal sites controlled by the company.

Scope 02

- **Electricity Acquisition:** Emissions resulting from the purchase of electricity.
- **Electricity Transmission Losses:** Emissions associated with energy losses during the transmission process.

Scope 03

- **Fuel- and Energy-Related Activities Not Included in Scopes 1 and 2:** Emissions occurring in the life cycle (extraction, production, and transportation) of fuels and energy purchased, consumed, or traded by the company that are not accounted for in Scopes 1 and 2.
- **Capital Goods:** Emissions generated during the energy production life cycle of capital goods purchased or acquired by the company.
- **Purchased Goods and Services:** Emissions related to the energy production life cycle of goods and services not linked to other Scope 3 categories.
- **Employee Commuting:** Emissions from vehicles, buses and trains used by employees for commuting between home and the workplace.
- **Effluents:** Emissions from the treatment of liquid effluents processed outside the organization's boundaries, distinguishing them from Scope 1 emissions.
- **Investments:** Emissions associated with investment activities.
- **Solid Waste:** Waste disposed of or treated outside the organization's boundaries, including landfill, composting, or incineration.
- **Transportation and Distribution (Upstream):** Emissions from third-party vehicles used for transporting products, supplies, or people.
- **Business Travel:** Emissions from air and ground travel conducted by employees on behalf of the company.

Organizational Boundaries

The GHG emissions associated with the company's activities, within its organizational boundaries, are classified as direct when originating from sources under its control, or indirect when generated by third parties due to its activities.

The approach used to define organizational boundaries follows the GHG Protocol, utilizing two methods: operational control, with accounts for 100% of emissions from ventures under the group's control, and equity share, wich considers emissions proportionally to the company's ownership stake.

The list of ENGIE plants classified according to Operational Control and Equity Share is provided in the following tables.

Note:
GHG emissions from hydropower reservoirs were not considered. According to ELETROBRÁs (2012) there is no "international scientific consensus on a methodology to estimate GHG emissions from these reservoirs or to calculate the emissions balance (or net emissions) of water bodies."

Operational Control ENGIE (100% Equity Share)
CECL - Wind Power Plant Campo Largo
CETR - Wind Power Plant Trairi
CEUR - Wind Power Plant Umburanas
CFFL - Photovoltaic Plant Floresta
CFJS - Photovoltaic Plant Juazeiro Solar
CFLS - Photovoltaic Plant Lar do Sol
CFPA – Paracatu Plant
CFSB - Photovoltaic Plant Sertão Solar Barreiras
CFSF - Photovoltaic Plant Sol do Futuro
CFSP - Photovoltaic Plant São Pedro
FVAE - Photovoltaic Plant Assú V
PHJG - Hidroelétric Plant José Gelázio da Rocha
PHRO - Hidroelétric Plant Rondonópolis
Projects under Implementation
Sede ENGIE Brasil Energy S.A
STGA - Transmission System – Gralha Azul
STGR - Transmission System – Gavião Real
STNE - Transmission System – Novo Estado
UCLA - Cogenerations Plant Lages
UETB - Wind Power Plant Tubarão
UFCA - Photovoltaic Plant Cidade Azul
UHCB - Hydroelectric Plant Cana Brava
UHJA - Hydroelectric Plant Jaguara
UHMI - Hydroelectric Plant Miranda
UHPF - Hydroelectric Plant Passo Fundo
UHPP - Hydroelectric Plant Ponte de Pedra
UHSA - Hydroelectric Plant São Salvador
UHSO - Hydroelectric Plant Salto Osório
UHSS - Hydroelectric Plant Salto Santiago
UTFE - Termoelétric Plant Ferrari

Operational Control ENGIE (69,26% Equity Share)
UTIB - Ibitiúva Thermoelectric Plant

Consórcios
Consórcio Estreito (40,07% Equity Share ENGIE)
UHET - Hydroelectric Plant Estreito
Consórcio Itá (68,99% Equity Share ENGIE)
UHIT - Hydroelectric Plant Itá
Consórcio Machadinho (19,29% Equity Share ENGIE)
UHMA - Hydroelectric Plant Machadinho



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ENGIE Corporate

Offices

Renewables

Transmission





ENGIE CORPORATE

Corporate

Total Emission per Source and Scope – 2024

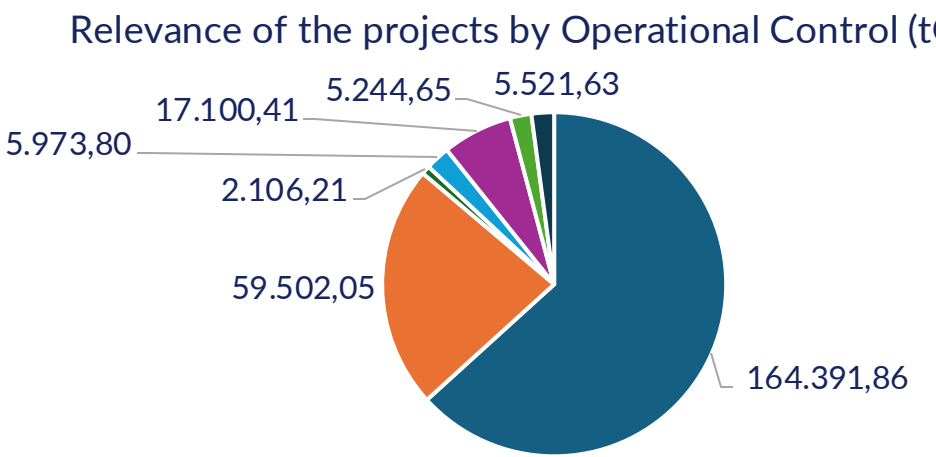
Market-Based Approach

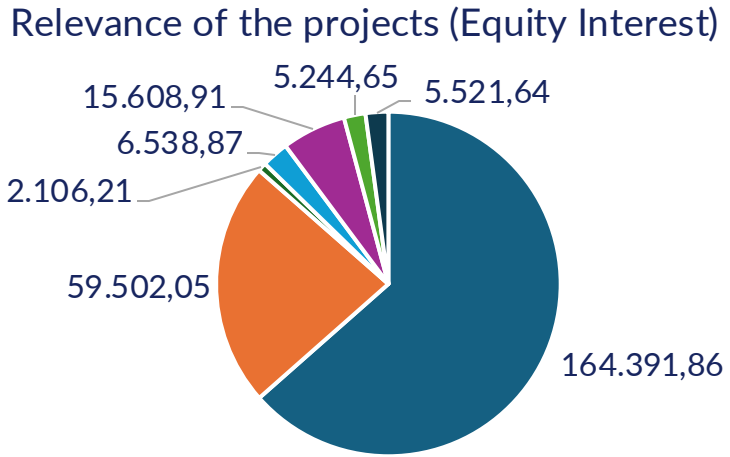
Emission Source	Operational Control		Equity Share	
	tCO_2e	%	tCO_2e	%
Scope 1	**17.361,38**	**6,7%**	**16.099,02**	**6,2%**
Stationary Combustion	16.423,96	6,3%	15.088,01	5,8%
Mobile Combustion	234,39	0,1%	245,66	0,1%
Fugitive Emissions	634,61	0,2%	695,20	0,3%
Wastewater Treatment	65,26	0,0%	67,00	0,0%
Agriculture Activities	3,16	0,0%	3,16	0,0%
Mudanças no Uso do Solo	0,00	0,0%	0,00	0,0%
Scope 2	-	0,0%	-	0,0%
Electricity Purchase	-	0,0%	-	0,0%
Electricity losses in Transmission	-	0,0%	-	0,0%
Scope 3	**242.514,38**	**93,2%**	**242.815,14**	**93,8%**
Purchased Goods and Services	134.774,23	51,7%	134.858,84	52,0%
Capital Goods	51.242,64	19,8%	51.425,96	19,8%
Business travel	2.432,71	1,0%	2.481,43	1,0%
Investments	50.651,45	19,4%	50.651,45	19,5%
Transportation and distribution (upstream)	2.022,77	0,8%	1.940,16	0,9%
Commuting	105,29	0,1%	144,24	0,1%
Waste	576,04	0,2%	577,52	0,2%
Wastewater Treatment	23,16	0,0%	23,16	0,0%
Fuel- and energy-related activities (not included in scope 1 or scope 2)	686,09	0,3%	692,04	0,3%
Total	**259.875,76**	**100,0%**	**258.914,16**	**100%**

Corporate

Operational Control - Total Emissions (tCO_2e)							Equity Share - Total Emissions (tCO_2e)					
Units	Scope 1	Scope 2 (Localization)	Scope 2 (Market-based Approach)	Scope 3	Total (Localization)	Total (Market-based Approach)	Scope 1	Scope 2 (Localization)	Scope 2 (Market-based Approach)	Scope 3	Total (Localization)	Total (Market-based Approach)
Projects under Implementation	22,76	-	-	164.369,10	164.391,86	164.391,86	22,76	-	-	164.369,10	164.391,86	164.391,86
Sede	252,85	101,71	-	59.249,20	59.603,76	59.502,05	252,85	101,71	-	59.249,20	59.603,76	59.502,05
UTFE	11.545,20	78,29	-	588,82	12.212,31	12134,02	11.545,20	78,29	-	588,82	12.212,31	12.134,02
UTIB	4.364,48	26,27	-	601,92	4.992,67	4966,40	3.022,84	18,19	-	416,89	3.457,92	3.439,73
CFPA	31,39	75,72	-	3.378,09	3.513,36	3409,48	31,39	75,72	-	3.378,09	3.485,20	3.409,48
CECL	68,30	41,31	-	2.045,36	2.154,97	2113,66	68,30	41,31	-	2.045,36	2.154,97	2.113,66
CEUR	105,86	39,24	-	1.800,05	1.945,15	1905,91	105,86	39,24	-	1.800,05	1.945,15	1.905,91
UHSO	525,57	3,00	-	1.274,12	1.802,69	1.799,69	525,57	3,00	-	1.274,12	1.802,69	1.799,69
UHJA	59,66	0,86	-	1.526,27	1.586,79	1585,93	59,66	0,86	-	1.526,27	1.586,79	1.585,93
CETR	112,86	21,71	-	1.388,30	1.522,87	1501,16	112,86	21,71	-	1.388,30	1.522,87	1.501,16
CFFL	0,48	64,18	-	844,52	909,18	845,00	0,48	64,18	-	844,52	909,18	845,00
UHMI	19,10	2,81	-	769,53	791,44	788,63	19,1	2,81	-	769,53	791,44	788,63
STNE	46,93	6.288,70	-	730,64	7.066,27	777,57	46,93	6.288,70	-	730,64	7.066,27	777,57
STGR	-	-	-	725,98	725,98	725,98	-	-	-	725,98	725,98	725,98
STGA	70,18	7.874,33	-	532,47	8.476,98	602,65	70,18	7.874,33	-	532,47	8.476,98	602,65
UHSS	12,19	37,18	-	547,08	596,44	559,26	12,19	37,18	-	547,08	596,44	559,26
UHCB	10.68	-	-	442,42	453,10	453,10	10,68	-	-	442,42	453,10	453,10
UHPP	15,45	-	-	381,09	396,54	396,54	15,45	-	-	381,09	400,62	400,62
UHIT	-	-	-	-	-	-	11,67	1,78	-	294,49	307,94	306,16
UHET	-	-	-	-	-	-	66,02	5,31	-	159,25	230,58	225,27
CFJS	19,86	38,04	-	204,74	262,64	224,60	19,86	38,04	-	204,74	262,64	224,6
FVAE	11,96	41,05	-	186,01	239,02	197,97	11,96	41,05	-	186,01	239,02	197,97
CFSB	15,93	21,9	-	178,75	216,58	194,68	15,93	21,9	-	178,75	216,58	194,68
UHPF	3,59	6,32	-	179,33	189,25	182,93	3,59	6,32	-	179,33	189,25	182,93
PHRO	8,55	-	-	121,35	129,90	129,90	8,55	-	-	121,35	129,9	129,9
CFLS	0,25	33,2	-	128,77	162,22	129,02	0,25	33,2	-	128,77	162,22	129,02
CFSF	7,01	25,98	-	113,71	146,70	120,72	7,01	25,98	-	113,71	146,7	120,72
CFSP	2,29	98,09	-	104,76	205,15	107,06	2,29	98,09	-	104,76	205,15	107,06
UHSA	23,45	-	-	39,39	62,84	62,84	23,45	-	-	39,39	62,84	62,84
UHMA	-	-	-	-	-	-	1,60	0,06	-	32,05	33,71	33,71
UCLA	3,38	10,73	-	31,78	45,89	35,16	3,38	10,73	-	31,78	45,89	35,16
PHJG	1,17	0,25	-	13,81	15,23	14,98	1,17	0,25	-	13,81	15,23	14,98
UFCA	-	7,86	-	16,13	23,99	16,13	-	7,86	-	16,13	23,99	16,13
UETB	-	3,62	-	0,91	4,53	0,91	-	3,62	-	0,91	4,53	0,91
Total	**17.361,38**	**14.942,35**	**0,00**	**242.514,40**	**274.818,13**	**259.875,78**	**16.099,03**	**14.941,42**		**242.815,16**	**273.855,61**	**258.914,19**

Corporate



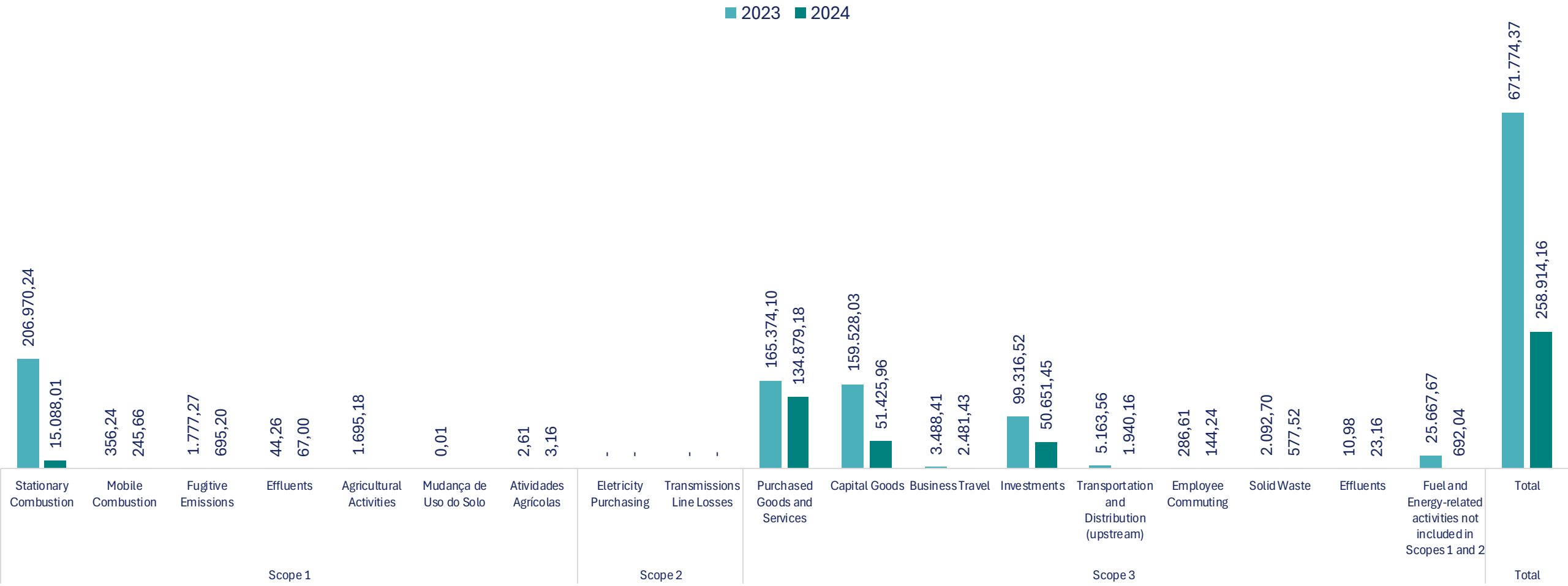


The Plants under Implementation (new ventures that have not yet started operations) contribute the most to EBE's GHG emissions in 2024, accounting for 63%, followed by the Headquarters, which represents 23% of total emissions.

Corporate

Comparison Scopes 1,2 e 3: Equity Share 2023 x 2024 (tCO_2e)

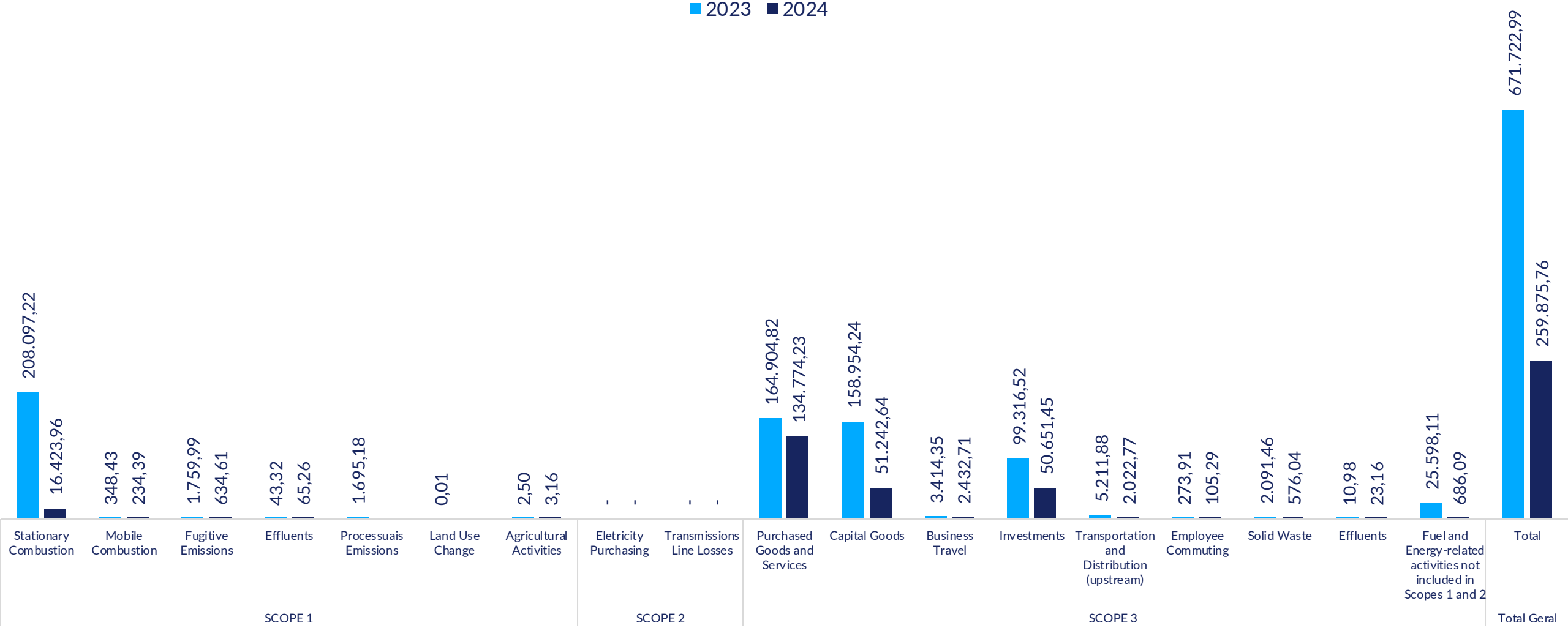
Market-Based Approach



Corporate

Comparison Scopes 1,2 e 3: Operational Control 2023 x 2024 (tCO_2e)

Market-Based Approach



Corporate

Comparison of Total Emissions (scopes 1, 2 and 3) – 2024 vs. 2023 (tCO_2e)

Maket-Based Approach

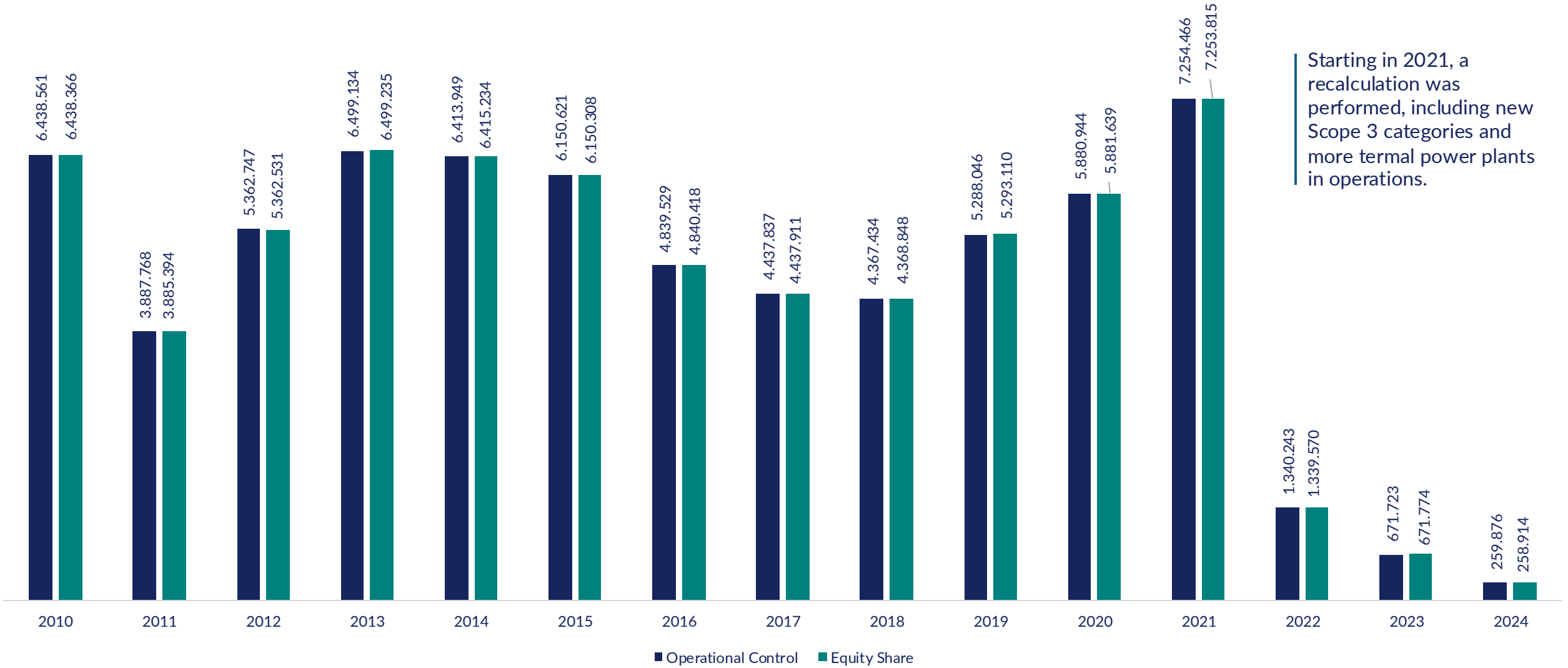
The decommissioning of thermal power plants directly impacted the Company's emissions. Corporate emissions decreased by 61% compared to 2023. This reduction is primarily associated with lower emissions from stationary combustion (-93%) and fuel- and energy-related activities not included in Scopes 1 and 2 (-97%).

Currently, ENGIE Brasil Energia (EBE) reports Scope 2 emissions using both the location-based and market-based approaches. By proving the renewable origin of the energy consumed through the purchase of I-RECs, the company achieved neutral Scope 2 emissions under the market-based approach.

Corporate

Total Emissions Evolution (Scope 1, 2 e 3) 2010 to 2024 (tCO_2e)

Market-Based Approach



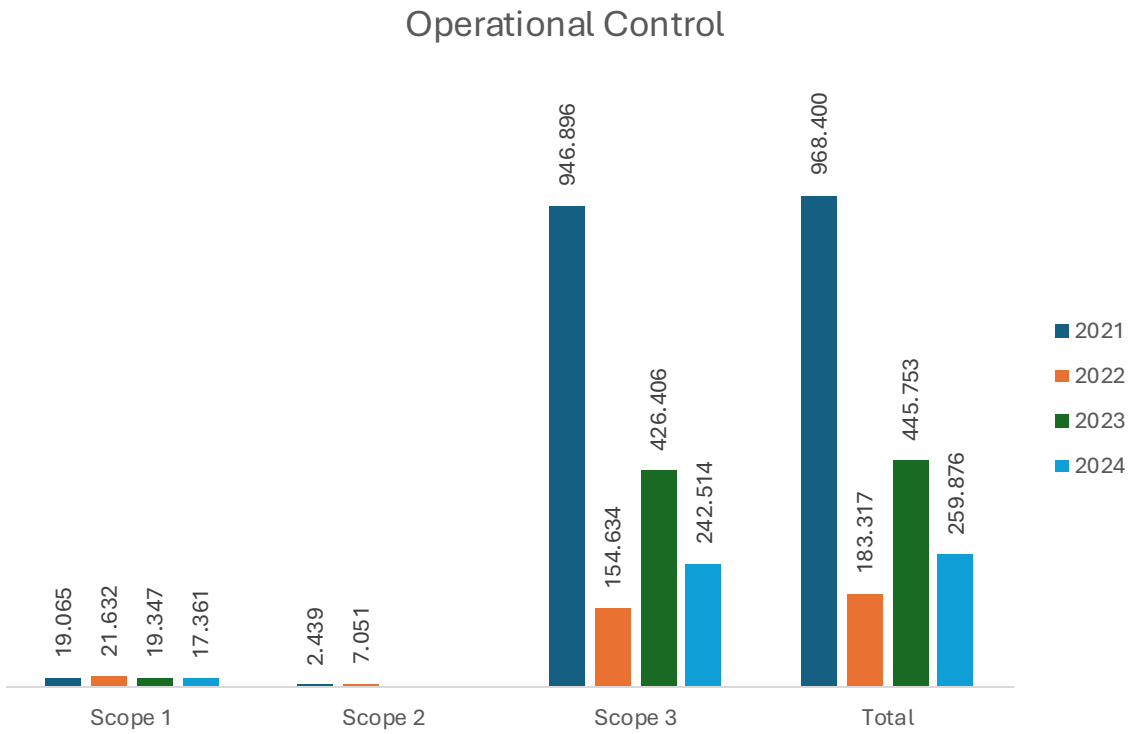
Starting in 2021, a recalculation was performed, including new Scope 3 categories and more termal power plants in operations.

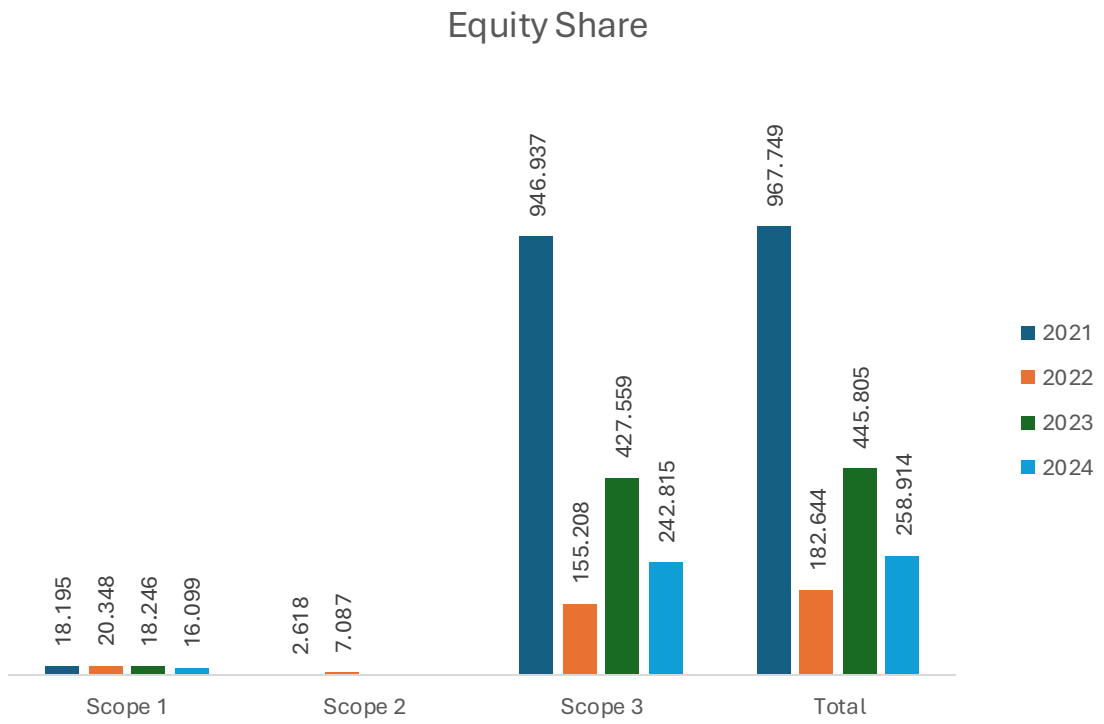
Corporate

Total Emissions Evolution (Scope 1, 2 e 3) 2010 to 2024 (tCO_2e)

No coal-fired power plants

Market-Based Approach

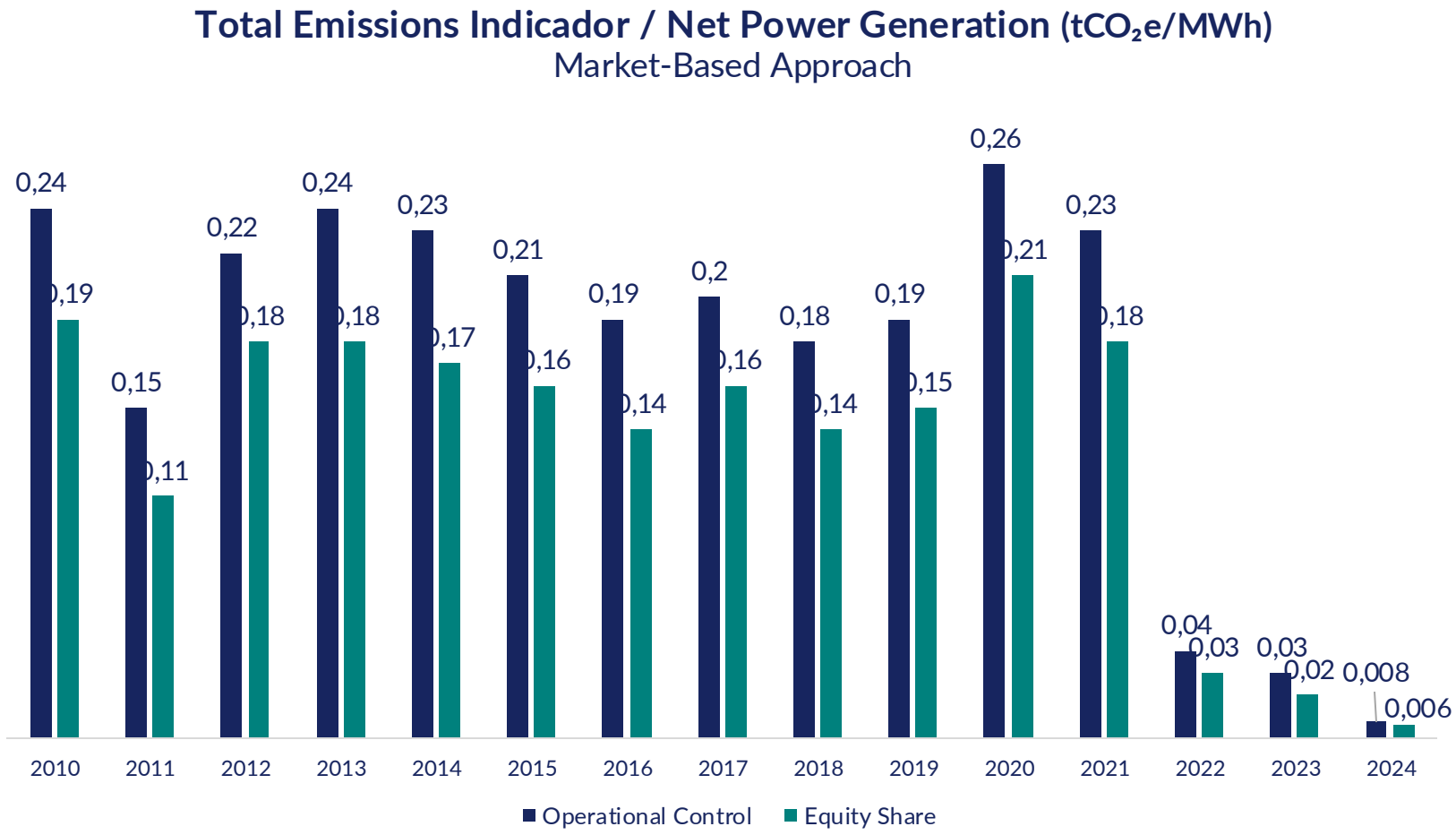




Emissions, excluding coal-fired power plants, show a decrease in emissions in reference to the base year of 2021.

Corporate

Year	Operational Control (tCO_2e/MWh)	Equity Share (tCO_2e/MWh)
2010	0,24	0,19
2011	0,15	0,11
2012	0,22	0,18
2013	0,24	0,18
2014	0,23	0,17
2015	0,21	0,16
2016	0,19	0,14
2017	0,20	0,16
2018	0,18	0,14
2019	0,19	0,15
2020	0,26	0,21
2021	0,23	0,18
2022	0,04	0,03
2023	0,03	0,02
2024	0,008	0,006



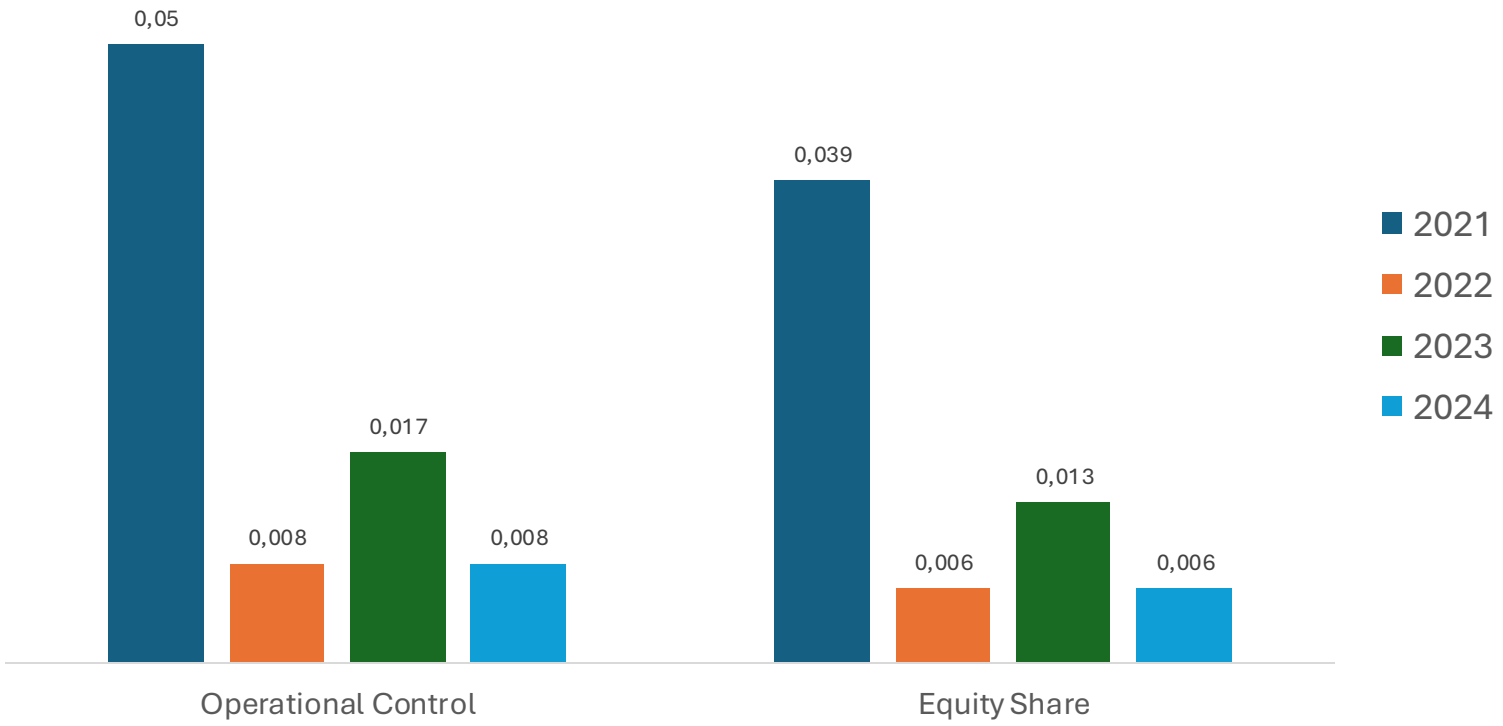
Corporate

Year	Operational Control (tCO_2e/MWh)	Equity Share (tCO_2e/MWh)
2021	0,050	0,039
2022	0,008	0,006
2023	0,017	0,013
2024	0,008	0,006

Total Emissions Indicador / Net Power Generation (tCO_2e/MWh)

No coal-fired power plants

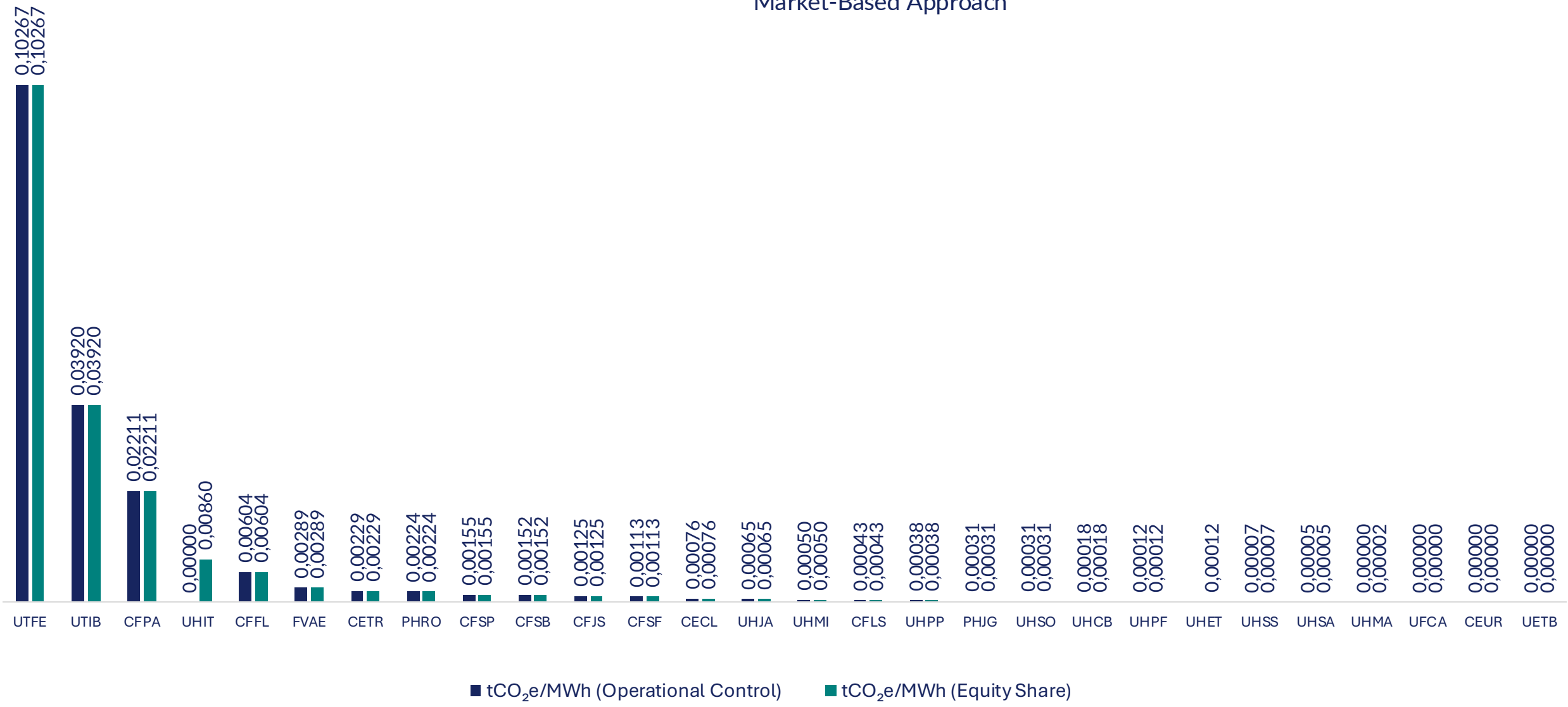
Market-Based Approach



Corporate

Indicador Emission Unit / Net Power Generation (tCO_2e/MWh)

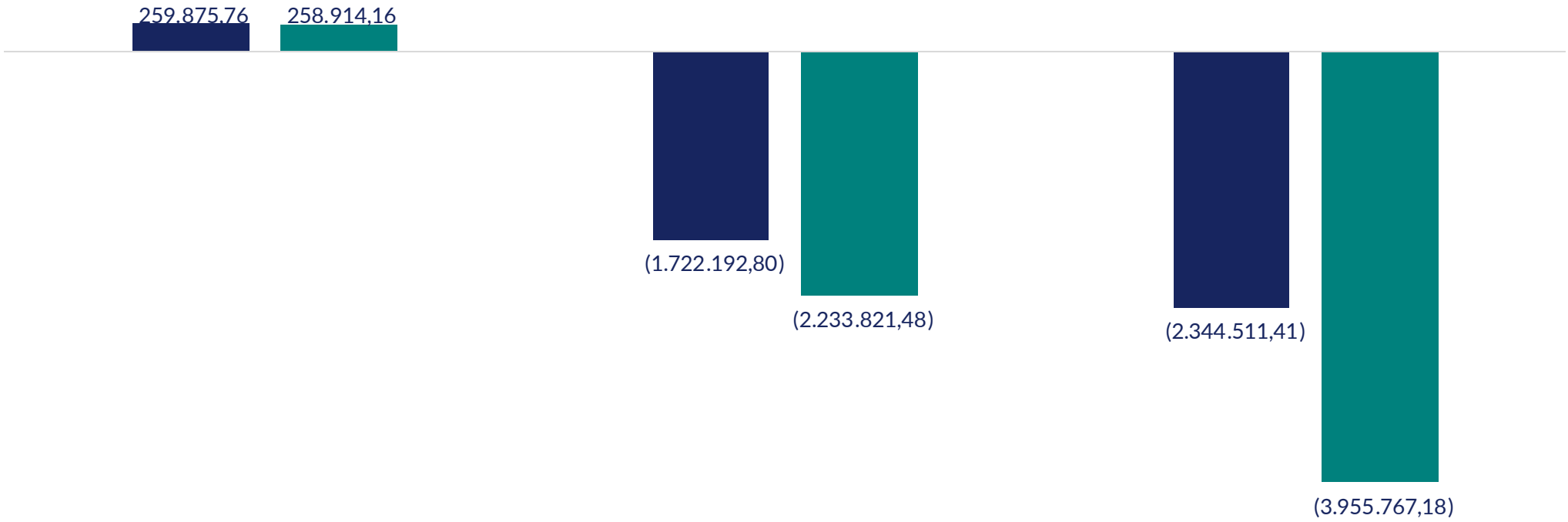
Market-Based Approach



Corporate

The avoided emissions provided by the clean Generation of EBE's renewable ventures exceed the company's emissions. Additionally, the company maintains a significant biogenic carbon stock in permanente preservation áreas, private natural heritage reserves, and remaining áreas.

Balance of Emissions (tCO_2)



	Total Emissions (Market-Based Approach)	Avoided Emissions Renewable Energy Generation	Carbon Stock (APPs, RPPNs, and Remnant Areas)
Operational Control	259.875,76	(1.722.192,80)	(2.344.511,41)
Equity Share	258.914,16	(2.233.821,48)	(3.955.767,18)

Corporate

Emission GEE (metric ton)

	Scope 1							Scope 2		Scope 3		
Units	CO_2	CH_4	N_2O	HFC-125	HFC-134A	HFC-32	SF_6	CO_2 (Localization)	CO_2 (Market-based Approach)	CO_2	CH_4	N_2O
Operational Control												
Total	**747,34**	252,55	33,63	0,11	0,03	0,11	0,01	14.942,35	-	241.117,22	16,72	3,43
Equity Share												
Total	762,92	231,44	30,81	0,11	0,03	0,11	0,01	14.941,42	-	241.410,72	16,77	3,,45

Emissions from Gases Not Controlled by the Kyoto Protocol

Emission Source	HFC-141B	HFC-22	Total
Operational Control			
Total	-	58,43	58,43
Equity Share			
Total	-	77,12	72,07

Corporate

Biogenic Emissions per Source and Scope: Operational Control

Emission Source	Biogenic Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	838.687,52	99,9%	898.268,05	99,9%	(59.580,53)	-6,6%
Stationary Combustion	838.330,78	99,8%	897.946,60	99,8%	(59.615,82)	-6,6%
Mobile Combustion	356,74	0,0%	321,45	0,04%	35,29	10,9%
Scope 3	870,43	0,0%	1.311,22	0,1%	(440,79)	-33,6%
Business travel	168,72	0,0%	782,57	0,1%	(613,85)	-78,4%
Purchased Goods and Services	4,63	0,0%	489,28	0,05%	(484,65)	-99,0%
Transportation and distribution (upstream)	680,96	0,0%	36,65	0,00%	644,31	1.740%
Commuting	16,12	0,0%	2,71	0,00%	13,41	490,4%
Total	839.557,95	100%	899.579,27	100%	(59.889,60)	-6,7%

EBE's biogenic emissions are primarily associated with the release of biogenic CO_2 resulting from the use of biomass-based fuels at the UTIB and UTFE thermoelectric plants. Emissions decreased by 6.7% in 2024 compared to 2023. This change is linked to lower emissions from stationary combustion (-6.6%).

Corporate

Biogenic Emissions per Source and Scope: Equity Share

Emission Source	Biogenic Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	768.119,88	100%	838.672,96	100%	(70.553,08)	-8,4%
Stationary Combustion	767.738,30	100%	838.327,95	100%	(70.589,65)	-8,4%
Mobile Combustion	381,59	0%	345,01	0%	36,58	10,6%
Scope 3	882,86	0%	1.335,85	0%	(428,36)	-32,7%
Business travel	172,78	0%	501,27	0%	(328,49)	-70,8%
Purchased Goods and Services	4,63	0%	2,71	0%	(1,92)	-65,5%
Transportation and Distribution (upstream)	683,35	0%	792,77	0%	(109,42)	-13,8%
Commuting	22,09	0%	39,09	0%	(17,00)	-43,5%
Total	769.002,74	100%	840.008,81	100%	(71.006,07)	-8,5%

EBE's biogenic emissions are primarily associated with the release of biogenic CO_2 resulting from the use of biomass-based fuels at the UTIB and UTFE thermoelectric plants.
Emissions decreased by 8.5% in 2024 compared to 2023. This change is linked to lower emissions from stationary combustion (-8.4%).

Corporate

Assessment of Uncertainties by Calculated Emissions

Resource	Total Appeal	Unit	Fixed Activity	GHG emission factor	Emission Unit	% Fixed Uncertainty Factor	CO_2 emission (kg)	CO_2 emission (t)	Calculated Uncertainty	Certainty Ranking
Sugarcane Bagasse – UTFE	1,707,338.00	t	0.05	6.81	kg CO_2e/t	0.07	11,629,780.35	11,629.78	0.09	Good
Sugarcane Bagasse - UTIB	626,592.06	t	0.05	7.01	kg CO_2e/t	0.07	4,393,757.51	4,393.76	0.09	Good
CO_2	186,644,498.57	Kg	0.05	1.00	kg CO_2e/Kg	-	186,644,498.57	186,644.50	0.05	High
Diesel_CE_Energia	45,896.63	Litros	0.15	2.33	kg CO_2e/Litros	0.07	107,120.84	107.12	0.17	Fair
Diesel_FM_on-road	1,023,964.51	Litros	0.15	1.97	kg CO_2e/Litros	0.07	2,019,683.51	2,019.68	0.17	Fair
Wastewater Treatment_Colaboradores	2,210.00	Colaboradores	0.05	20.92	kg CO_2e/Colaboradores	0.67	46,236.77	46.24	0.67	Poor
Wastewater Treatment_Fossa Séptica_Final	127.96	-	0.05	10.48	kg CO_2e/-	0.67	1,341.29	1.34	0.67	Poor
Wastewater Treatment_Reator_Final	693.93	-	0.05	15.52	kg CO_2e/-	0.67	10,771.30	10.77	0.67	Poor
Eletric Enerrgy	315,969,721.29	kWh	0.00	0.05	kg CO_2e/kWh	0.07	15,513,282.70	15,513.28	0.07	Good
EtYearl_Hidratado_FM_on-road	852,012.37	Litros	0.15	0.25	kg CO_2e/Litros	0.07	214,339.55	214.34	0.17	Fair
Gasoline_E27_CE_	22,278.12	Litros	0.15	1.64	kg CO_2e/Litros	0.07	36,573.16	36.57	0.17	Fair
Gasoline_E27_FM_	467,731.63	Litros	0.15	1.58	kg CO_2e/Litros	0.07	739,244.19	739.24	0.17	Fair
GLP	250.22	GJ	0.05	3.02	kg CO_2e/GJ	0.07	754.58	0.75	0.09	Good
GLP_CE_	140.00	Kg	0.05	19.84	kg CO_2e/Kg	0.07	2,777.46	2.78	0.09	Good
HFC-134a	5.97	Kg	0.05	1,300.00	kg CO_2e/Kg	0.02	7,761.00	7.76	0.05	Good
Wastewater Treatment	13,915.00	Kg	0.05	0.96	kg CO_2e/Kg	0.67	13,357.84	13.36	0.67	Poor
Nitrogen	53,350.56	-	0.05	0.06	kg CO_2e/-	0.33	3,159.82	3.16	0.33	Poor
R-22_HCFC22	52.40	Kg	0.05	1,760.00	kg CO_2e/Kg	0.02	92,224.00	92.22	0.05	Good
R-407C	52.40	Kg	0.05	1,624.21	kg CO_2e/Kg	0.02	85,108.60	85.11	0.05	Good
R-410A	227.42	Kg	0.05	1,923.50	kg CO_2e/Kg	0.02	437,432.75	437.43	0.05	Good
Orgânico Waste	43,990.44	Kg	0.05	0.42	kg CO_2e/Kg	0.67	18,593.40	18.59	0.67	Poor
Waste	40.61	t	0.05	403.67	kg CO_2e/t	0.67	16,392.89	16.39	0.67	Poor
SF_6	11.49	Kg	0.05	23,500.00	kg CO_2e/Kg	0.02	270,052.60	270.05	0.05	Good
Aerial Travel_SD	1,737,355.66	PKm	0.15	0.16	kg CO_2e/PKm	0.07	279,706.44	279.71	0.17	Fair
Aerial Travel_MD	2,105,009.35	PKm	0.15	0.15	kg CO_2e/PKm	0.07	324,676.01	324.68	0.17	Fair
Aerial Travel_LD	10,113,711.05	PKm	0.15	0.11	kg CO_2e/PKm	0.07	1,109,966.64	1,109.97	0.17	Fair
Total	**521,431,177.66**		**0.15**	**0.43**	**kg CO_2e/t**	**0.67**	**224,018,593.80**	**224,018.59**	**0.69**	**Poor**

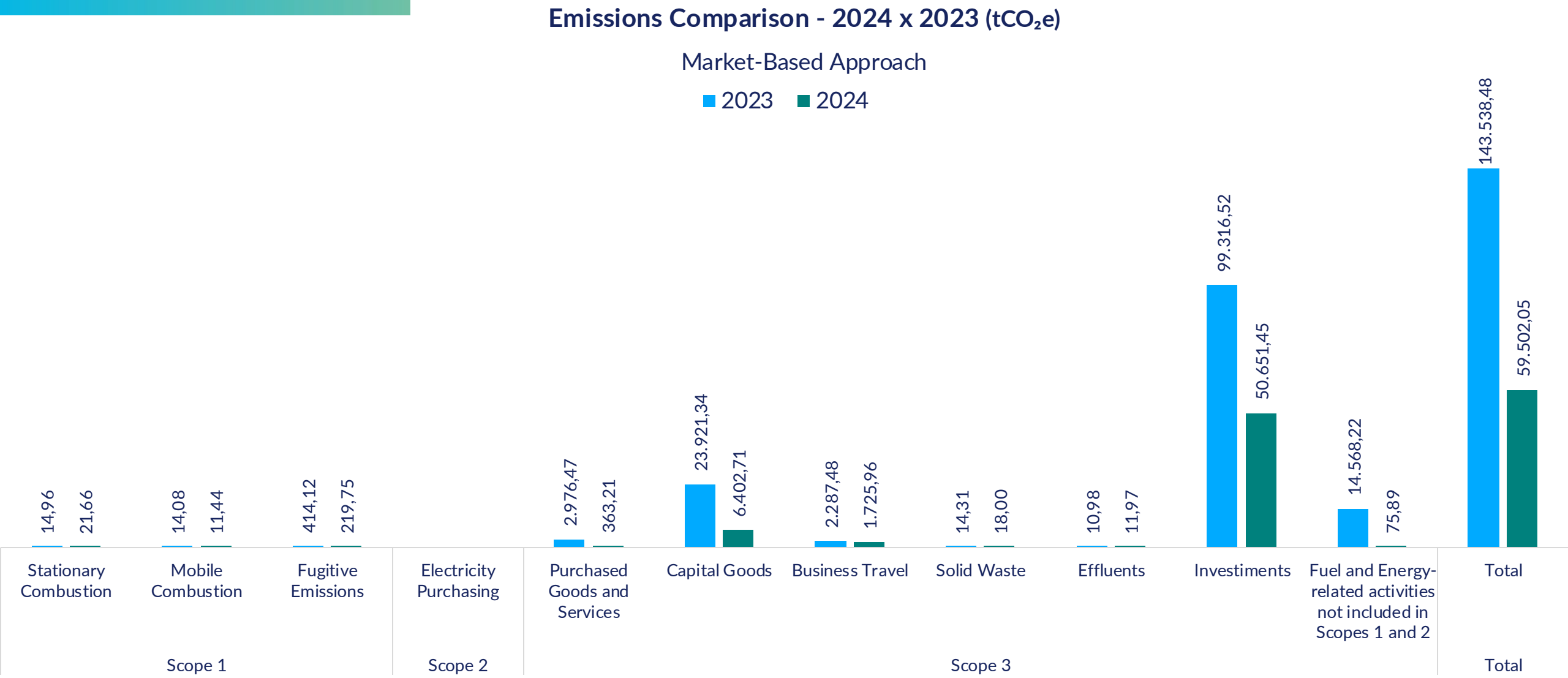
Legenda	
High	≤ 5%
Good	≤ 15%
Fair	≤ 30%
Poor	> 30

Uncertainties were calculated by emission source.
The **cumulative uncertainty** of the inventory is 4.2%, as shown in the table above.

Assessment of Uncertainties: HIGH


OFFICES

Results / Headquarters



Results / Headquarters

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

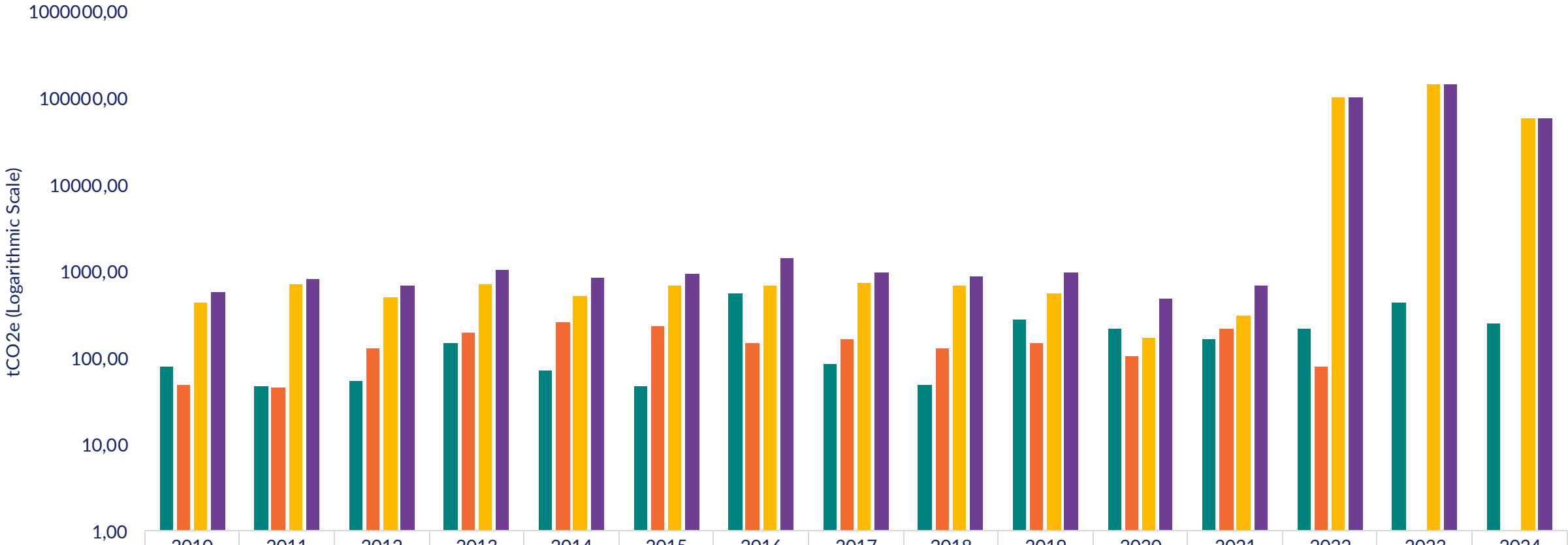
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	252,85	0%	443,16	0%	(190,31)	-43%
Stationary Combustion	21,66	0%	14,96	0%	(6,70)	-45%
Mobile Combustion	11,44	0%	14,08	0%	(2,64)	-19%
Fugitive Emissions	219,75	0%	414,12	0%	(194,37)	-47%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	59.249,20	100%	143.095,32	100%	(83.846,12)	-59%
Purchased Goods and Services	363,21	1%	2.976,47	2%	(2.613,26)	-88%
Capital Goods	6.402,71	11%	23.921,34	17%	(17.518,63)	-73%
Business travel	1.725,96	3%	2.287,48	2%	(561,52)	-24%
Waste	18,00	0%	14,31	0%	(3,69)	-26%
Wastewater Treatment	11,97	0%	10,98	0%	(0,99)	-9%
Investments	50.651,45	85%	99.316,52	69%	(48.665,07)	-49%
Fuel- and energy-related activities	75,89	0%	14.568,22	10%	(14.492,33)	-99%
Total	59.502,05	100%	143.538,48	100%	(84.036,43)	-59%

Emissions from the Headquarters Office decreased by 59% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-88%), Capital Goods (-73%), and fuel- and energy-related assets not included in Scopes 1 and 2 (-99%).

Results / Headquarters

Emissions Evolutions per Operational Control and Equity Share (tCO_2e)

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	80,44	47,67	54,69	149,93	71,78	46,91	566,74	86,68	48,24	282,59	218,72	167,13	214,47	443,16	252,85
Scope 2	48,44	45,38	129,08	193,17	262,04	230,05	146,53	164,61	131,41	148,00	105,94	219,16	80,61	-	
Scope 3	438,55	711,71	501,22	716,94	518,90	675,97	696,54	729,54	687,81	549,03	168,41	311,07	102125,7	143095,3	59.249,
Total Emissions	567,43	804,76	684,98	1060,04	852,73	952,93	1409,80	980,83	867,47	979,62	493,07	697,35	102420,7	143538,4	59.502,

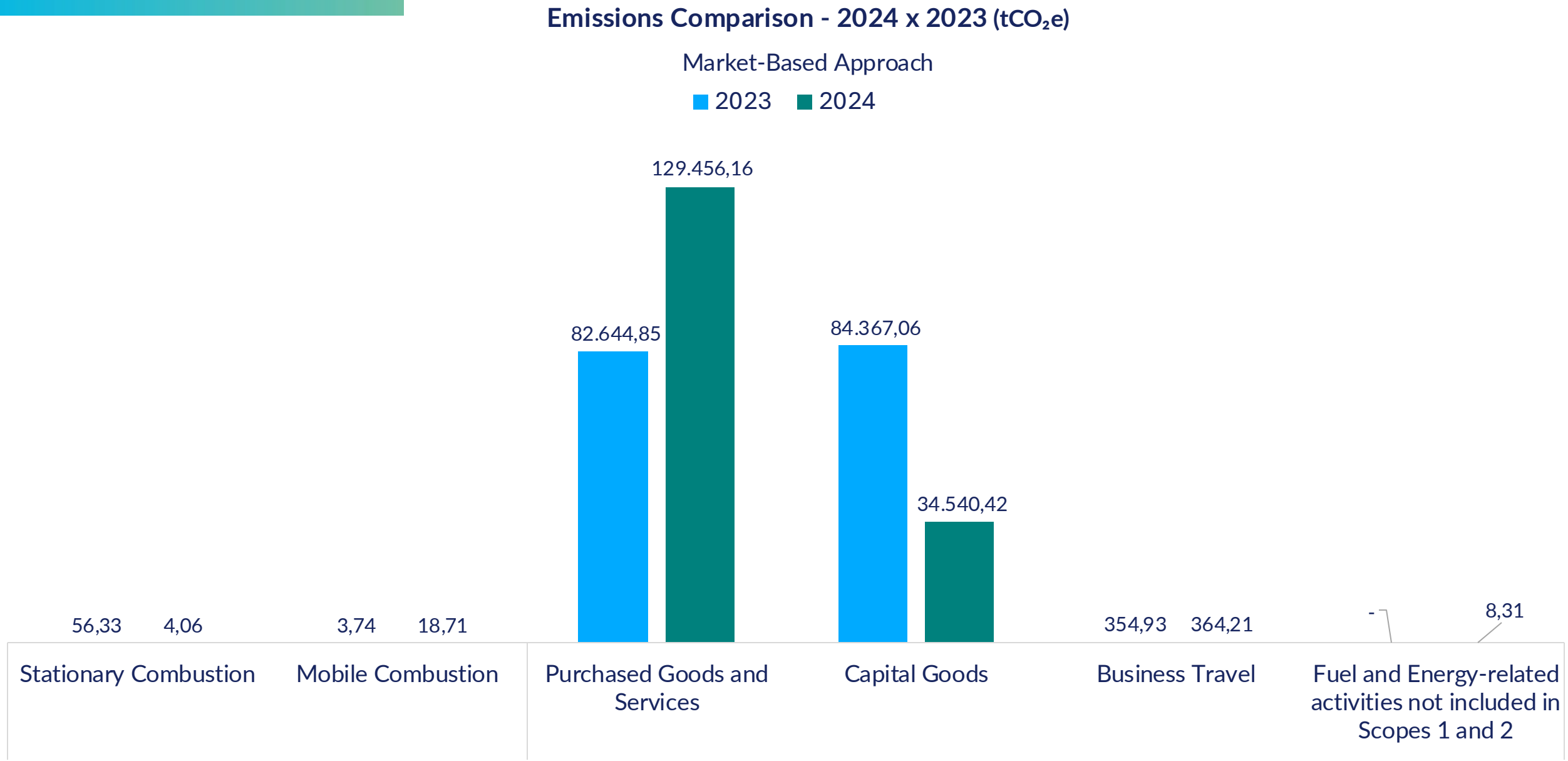
Results / Headquarters

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Biogenic Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	7,47	6%	6,25	2%	(1,22)	-20%
Stationary Combustion	3,17	3%	1,80	1%	(1,37)	-76%
Mobile Combustion	4,30	3%	4,45	1%	(0,15)	-3%
Scope 3	116,34	94%	303,21	98%	(186,87)	-62%
Business travel	116,34	94%	303,21	98%	(186,87)	-62%
Total	123,81	100%	309,46	100%	(185,65)	-60%

A 60% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-62%).

Results/ Projects under Implementation



Results/ Projects under Implementation

Emissions per Source (tCO_2e) 2024 x 2023

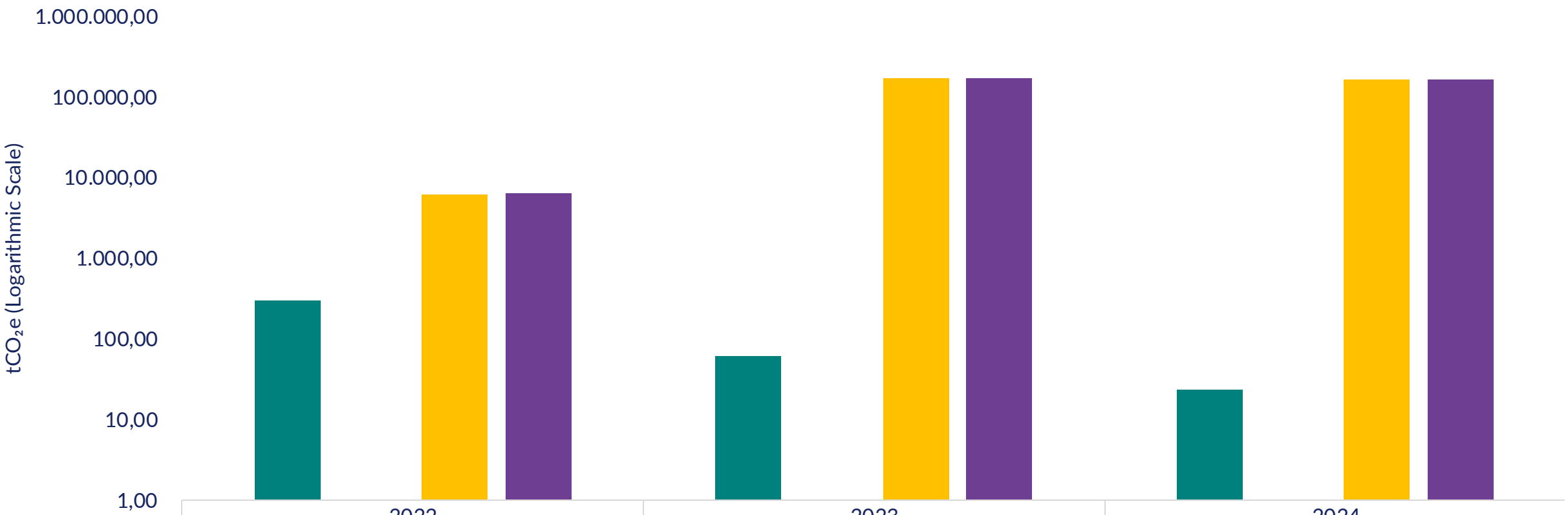
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	22,76	0%	60,07	0%	(37,31)	-62%
Stationary Combustion	4,06	0%	56,33	0%	(52,27)	-93%
Mobile Combustion	18,71	0%	3,74	0%	14,97	400%
Scope 3	164.369,10	100%	167.366,84	100%	(32.997,74)	-2%
Purchased Goods and Services	129.456,16	79%	82.644,85	49%	(46.811,31)	-57%
Capital Goods	34.540,42	21%	84.367,06	50%	(49.826,64)	-59%
Business travel	364,21	0%	354,93	0%	9,28	3%
Fuel- and energy-related activities	8,31	0%				
Total	164.391,86	100%	167.426,91	100%	(3.035,05)	-2%

Emissions from the Implementation Projects unit decreased by 2% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-57%) and Capital Goods (-59%).

Results/ Projects under Implementation

Annual Evolution of Emissions per Scope (tCO_2e)



	2022	2023	2024
Scope 1	298,96	60,07	22,76
Scope 2	-	-	-
Scope 3	6.058,63	167.366,83	164.369,10
Total Emissions	6.357,59	167.426,90	164.391,86

Results/ Projects under Implementation

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Biogenic Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	5,23	43%	14,42	30%	(9,19)	-64%
Stationary Combustion	1,06	9%	13,95	29%	(12,89)	-92%
Mobile Combustion	4,17	35%	0,47	1%	(3,70)	-788%
Scope 3	6,81	57%	34,16	70%	(27,35)	-80%
Business travel	6,81	57%	34,16	70%	(27,35)	-80%
Total	12,04	100%	48,58	100%	(36,54)	-75%

A 75% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-80%) and the percentage of Stationary Combustion (-92%).



RENEWABLES

RECR - CEARÁ AND RIO GRANDE DO NORTE WIND REGIONAL

RERU – URUGUAI RIVER REGIONAL

REOB – BAHIA WIND REGIONAL

RERI – IGUAÇU RIVER REGIONAL

RSCR – CEARÁ AND RIO GRANDE DO NORTE SOLAR REGIONAL

REMG – MINAS GERAIS REGIONAL

RSBM – BAHIA AND MINAS SOLAR REGIONAL

RERT – TOCANTINS RIVER REGIONAL

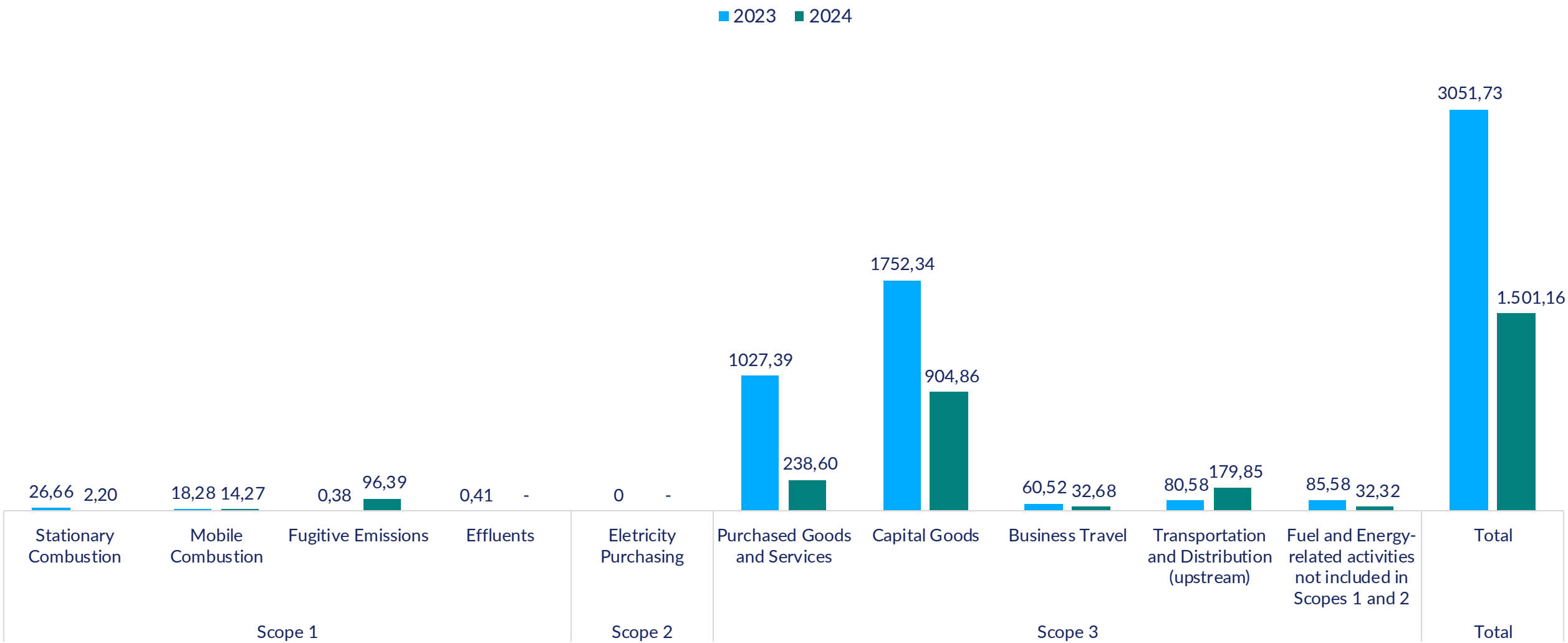
RECR – REGIONAL WIND CEARÁ AND RIO GRANDE DO NORTE

CETR – Wind Power Plant Trairi



Results / Renewable / RECR / CETR – Wind Power Plant Trairi

Emissions Comparison - 2024 x 2023 (tCO_2e) Market-Based Approach



Results / Renewable / RECR / CETR – Wind Power Plant Trairi

Emissions per Source (tCO_2e) 2024 x 2023
Market-Based Approach

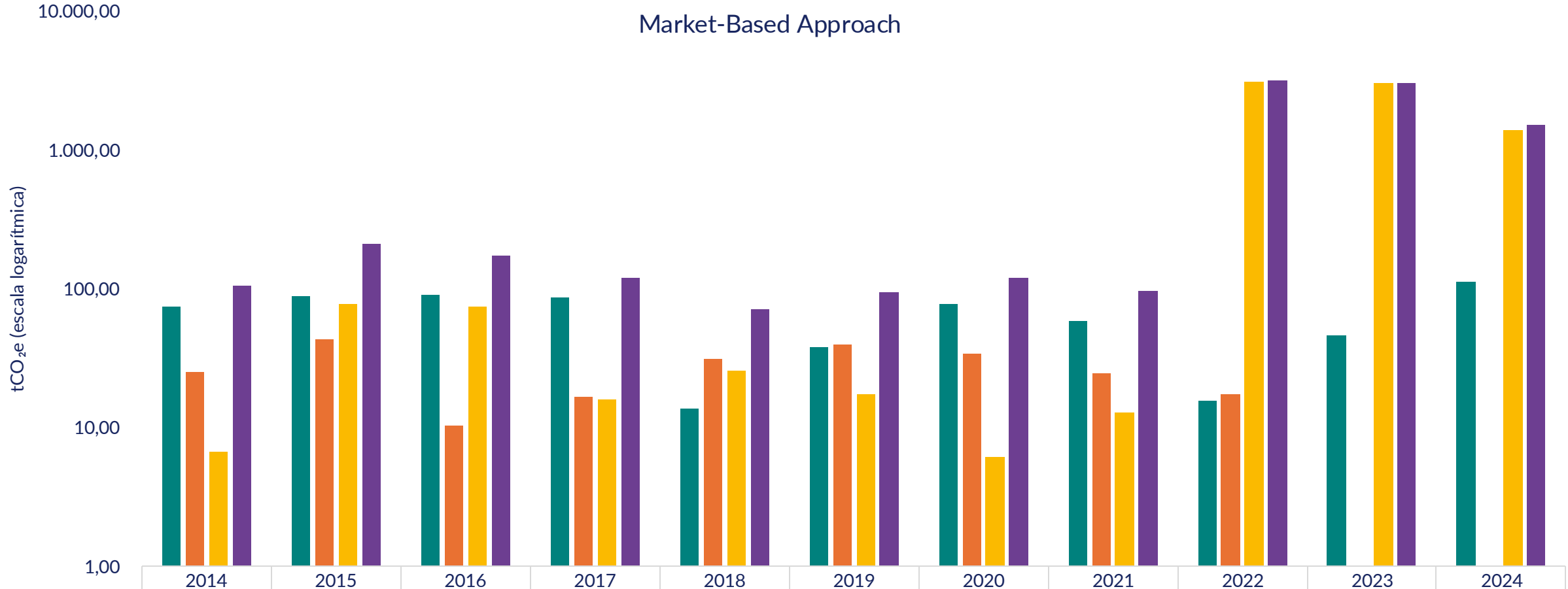
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	112,86	8%	45,32	1%	28,85	149%
Stationary Combustion	2,20	0%	26,66	1%	(24,46)	-92%
Mobile Combustion	14,27	1%	18,28	1%	(4,01)	-22%
Fugitive Emissions	96,39	0%	0,38	0%	96,01	100%
Wastewater Treatment	-	0%	0,41	0%	(0,41)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	1.388,30	92%	3.006,41	99%	1.618,11	-54%
Purchased Goods and Services	238,60	17%	1.027,39	34%	(788,79)	-77%
Capital Goods	904,86	63%	1.752,34	57%	(847,48)	-48%
Business travel	32,68	2%	60,52	2%	(27,84)	-46%
Transportation and distribution (upstream)	179,85	13%	80,58	3%	99,27	123%
Fuel- and energy-related activities	32,32	2%	85,58	3%	(53,26)	-62%
Total	1.501,16	100%	3.051,73	100%	(1.625,25)	-53%

Emissions from the CETR unit decreased by 53% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-77%) and Capital Goods (-48%).

Results / Renewable / RECR / CETR – Wind Power Plant Trairi

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	73,97	87,20	89,78	85,86	13,59	37,77	77,91	58,29	15,41	45,73	112,86
Scope 2	24,86	43,10	10,30	16,59	31,19	39,36	33,99	24,65	17,34	-	-
Scope 3	6,65	77,69	73,79	15,94	25,52	17,09	6,11	12,67	3.131,53	3.006,64	1.388,30
Total Emissions	105,48	207,99	173,87	118,39	70,30	94,22	118,01	95,61	3.164,28	3.052,37	1.501,16

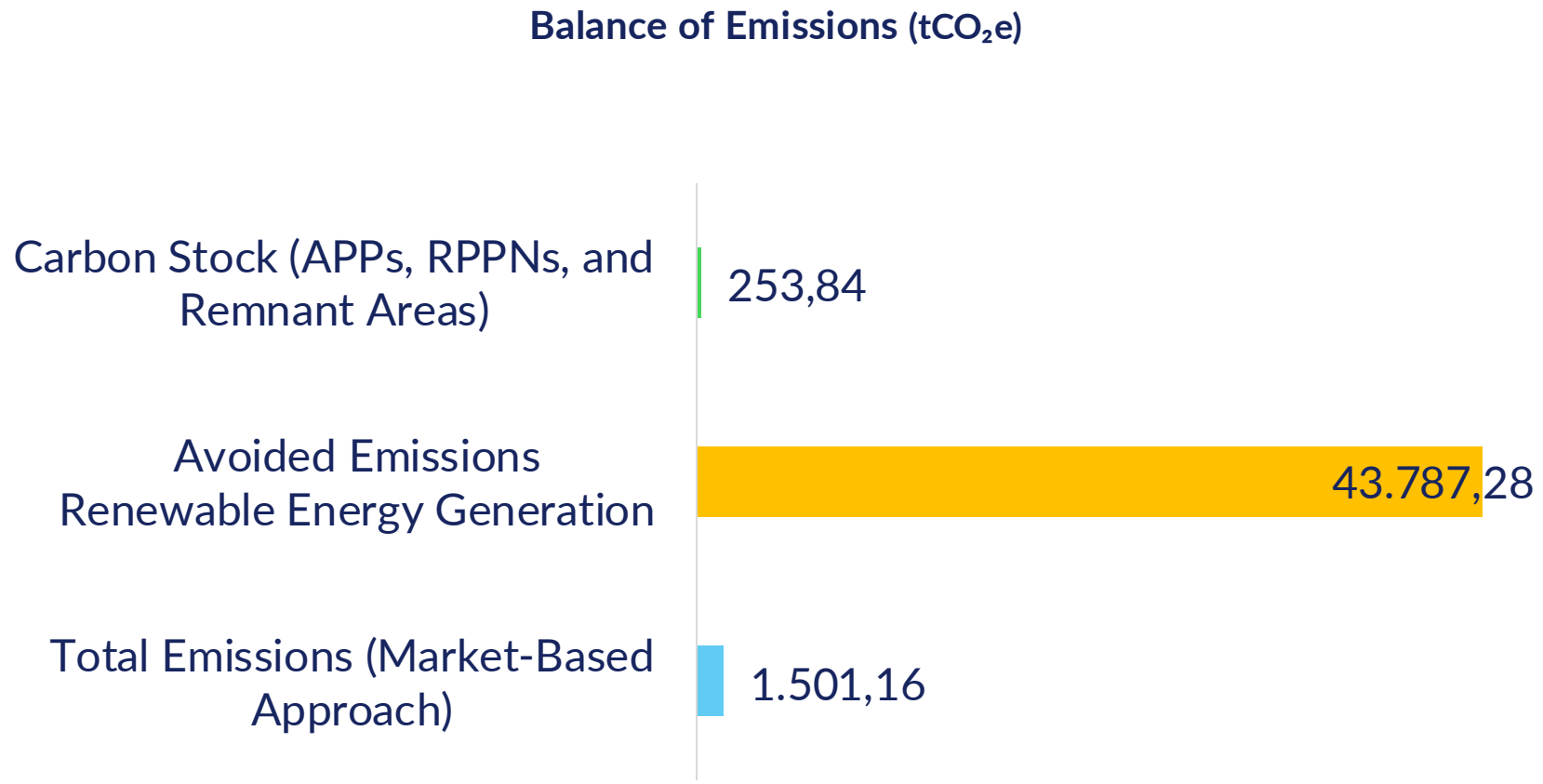
Results / Renewable / RECR / CETR – Wind Power Plant Trairi

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Biogenic Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	38,36	52%	39,93	63%	(1,57)	-4%
Stationary Combustion	0,36	0%	4,03	6%	(3,67)	-91%
Mobile Combustion	38,01	51%	35,9	56%	2,11	6%
Scope 3	35,48	48%	23,68	37%	11,8	50%
Business travel	4,19	6%	12,43	20%	(8,24)	-66%
Transportation and distribution (upstream)	31,29	42%	11,25	18%	20,04	178%
Total	73,84	100%	63,61	100%	10,23	16%

A 16% increase in biogenic emissions in 2024 compared to 2023, primarily due to higher fuel consumption in Transportation and Distribution (upstream) (178%).

Results / Renewable / RECR / CETR – Wind Power Plant Trairi



REOB – REGIONAL WIND BAHIA

CECL – Wind Power Plant Campo Largo

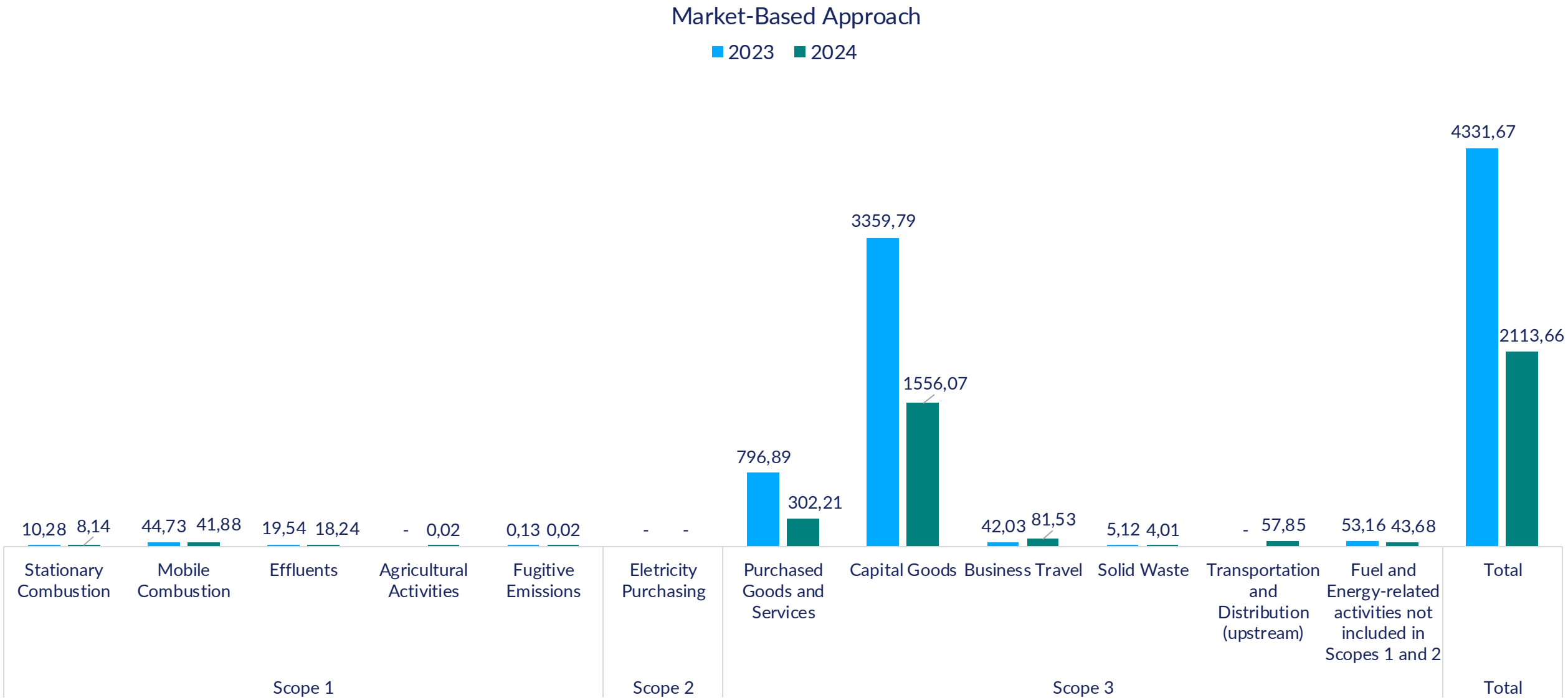


CEUR – Wind Power Plant Umburanas



Results / Renewable / REOB / CECL – Wind Power Plant Campo Largo

Emissions Comparison - 2024 x 2023 (tCO_2e)



Results / Renewable / REOB / CECL – Wind Power Plant Campo Largo

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

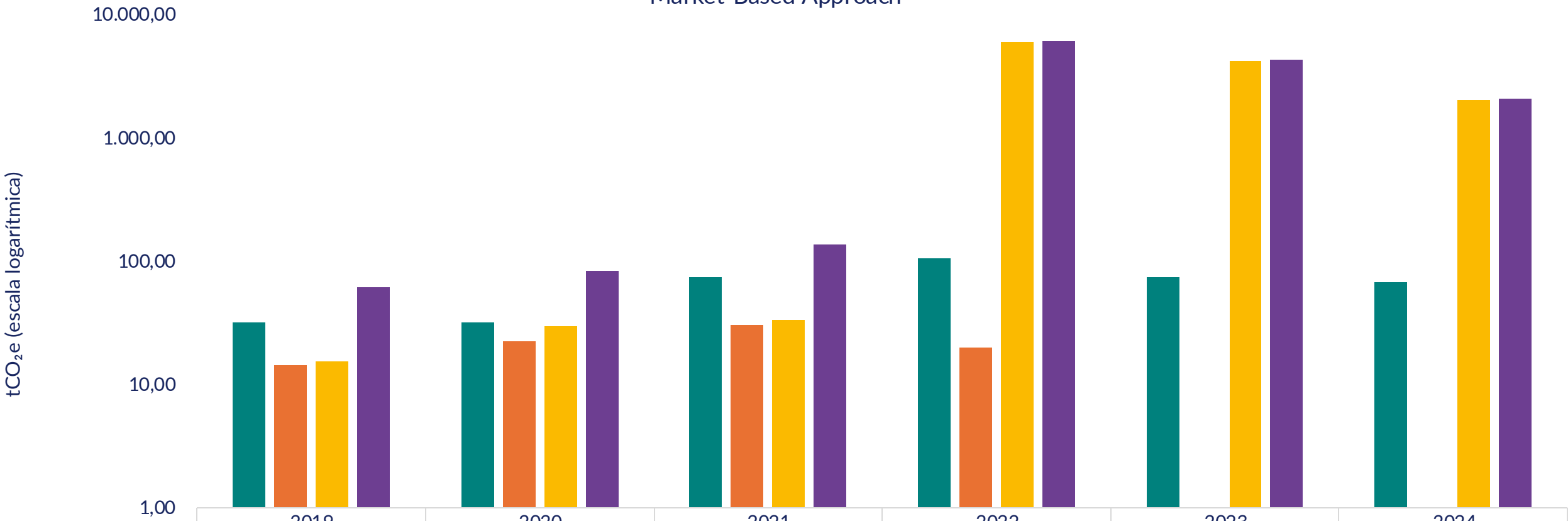
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	68,3	3%	74,68	2%	(6,38)	-9%
Stationary Combustion	8,14	0%	10,28	0%	(2,14)	-21%
Mobile Combustion	41,88	2%	44,73	1%	(2,85)	-6%
Wastewater Treatment	18,24	1%	19,54	0%	(1,30)	-7%
Agriculture Activities	0,02	0%	-	0%	0,02	100%
Fugitive Emissions	0,02	0%	0,13	0%	(0,11)	-86%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	2.045,36	95%	4.256,99	98%	(2.211,63)	-52%
Purchased Goods and Services	302,21	14%	796,89	18%	(494,68)	-62%
Capital Goods	1.556,07	72%	3.359,79	78%	(1.803,72)	-54%
Business travel	81,53	4%	42,03	1%	(39,50)	-94%
Waste	4,01	0%	5,12	0%	(1,11)	-22%
Transportation and distribution (upstream)	57,85	3%	-	0%	57,85	100%
Fuel- and energy-related activities	43,68	2%	53,16	1%	(9,48)	-18%
Total	2.113,66	100%	4.331,67	100%	(2.218,01)	-51%

Emissions from the CECL unit decreased by 51% in 2024 compared to 2023. This change is associated with lower emissions from Capital Goods (-54%) and Purchased Goods and Services (-62%).

Results / Renewable / REOB / CECL – Wind Power Plant Campo Largo

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2019	2020	2021	2022	2023	2024
Scope 1	31,63	32,18	74,20	104,95	74,68	68,30
Scope 2	14,48	22,69	30,40	19,89	-	-
Scope 3	15,29	29,64	33,38	5.978,01	4.257,00	2.045,36
Total Emissions	61,40	84,51	137,98	6.102,85	4.331,68	2.113,66

Results / Renewable / REOB / CECL – Wind Power Plant Campo Largo

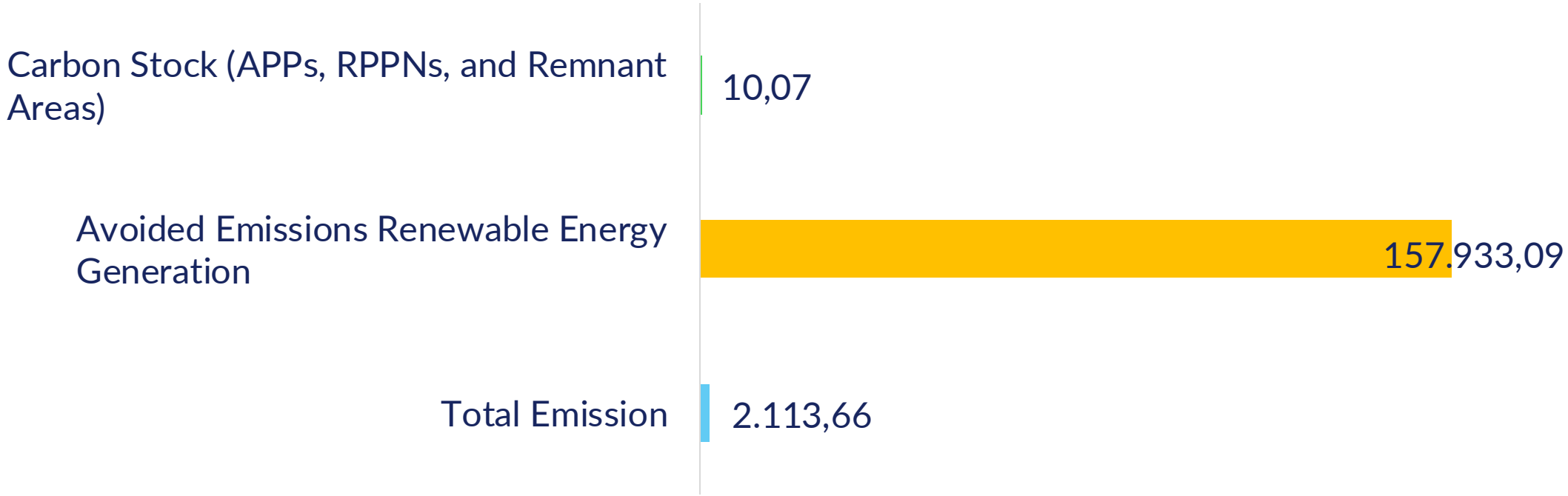
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	47,56	78%	34,23	86%	13,33	39%
Stationary Combustion	1,80	3%	1,24	3%	0,56	45%
Mobile Combustion	45,77	75%	32,99	83%	12,78	39%
Scope 3	22,95	22%	5,60	14%	8,13	145%
Business travel	13,73	22%	5,60	14%	8,13	145%
Transportation and distribution (upstream)	9,22	15%	-	0%	9,22	100%
Total	70,51	100%	39,83	100%	30,68	77%

A 54% increase in biogenic emissions in 2024 compared to 2023, primarily due to higher fuel consumption in Mobile Combustion (39%), Business Travel (145%), and a 100% increase in Transportation and Distribution (upstream).

Results / Renewable / REOB / CECL – Wind Power Plant Campo Largo

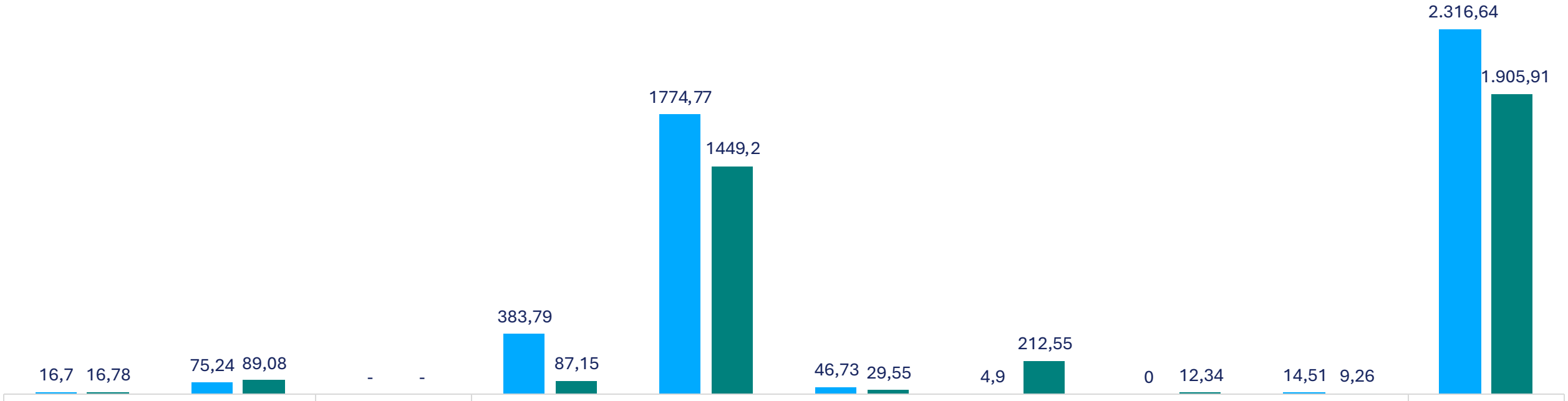
Balance of Emissions (tCO_2e)



Results / Renewable / REOB / CEUR – Wind Power Plant Umburanas

Emissions Comparison (tCO_2e) 2024 x 2023

Market-Based Approach



Results / Renewable / REOB / CEUR – Wind Power Plant Umburanas

Emissions per Source (tCO_2e) 2024 x 2023

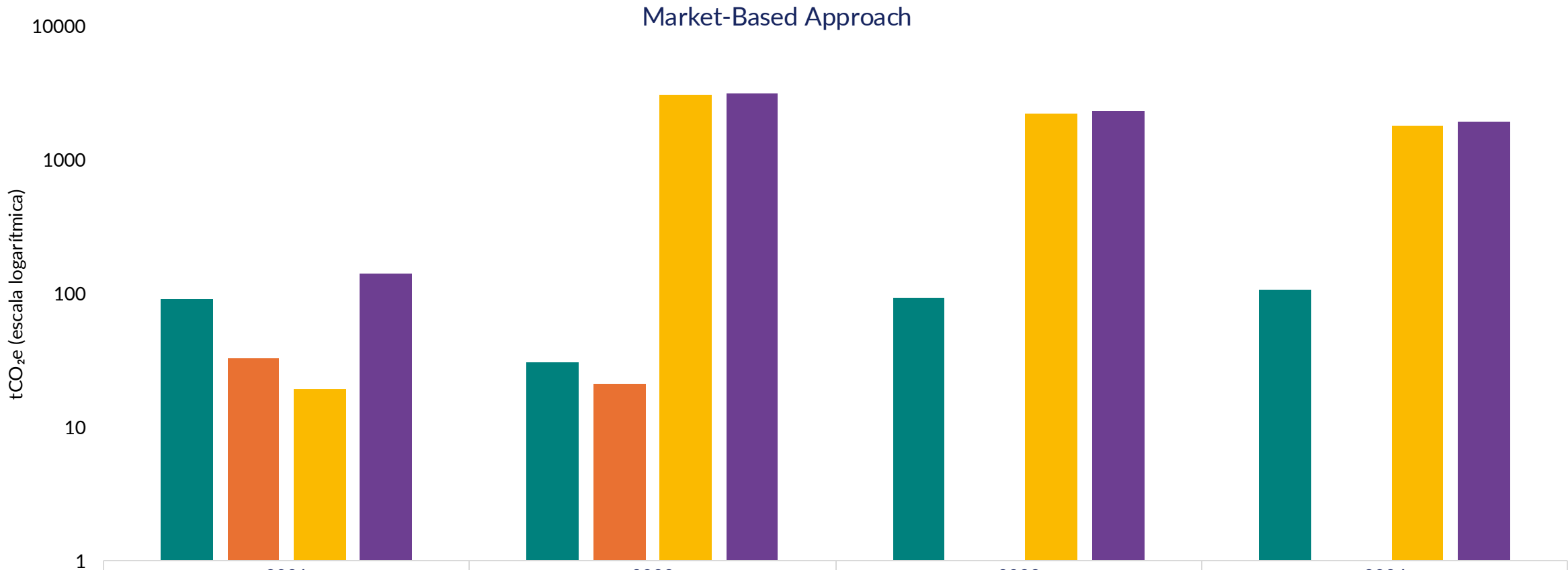
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	105,86	6%	91,94	4%	13,92	15%
Wastewater Treatment	16,78	1%	16,70	1%	0,08	0%
Fugitive Emissions	89,08	5%	75,24	3%	13,84	18%
Scope 2	-	0%	-	0%	-	-
Electricity Purchase	-	0%	-	0%	-	-
Scope 3	1.800,05	94%	2.224,7	96%	(424,65)	-19%
Purchased Goods and Services	87,15	4%	383,79	17%	(296,64)	-77%
Capital Goods	1.449,20	75%	1.774,77	77%	(325,570	-18%
Business travel	29,55	2%	46,73	2%	(17,18)	-37%
Waste	212,55	11%	4,90	0%	207,65	4.238%
Transportation and distribution (upstream)	12,34	1%	-	0%	12,34	100%
Fuel- and energy-related activities	9,26	0%	14,51	1%	(5,25)	-36%
Total	1.905,91	100%	2.316,64	100%	(410,73)	-18%

Emissions from the CEUR unit decreased by 18% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-77%) and Capital Goods (-18%).

Results / Renewable / REOB / CEUR – Wind Power Plant Umburanas

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2021	2022	2023	2024
Scope 1	89,26	30,43	91,93	105,86
Scope 2	32,54	20,99	-	-
Scope 3	19,18	3058,76	2224,69	1800,05
Total Emissions	140,98	3110,18	2316,62	1905,91

Results / Renewable / REOB / CEUR – Wind Power Plant Umburanas

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 3	4,01	100%	10,03	100%	6,02	-60%
Business travel	1,59	40%	10,03	100%	8,44	-84%
Transportation and distribution (upstream)	2,41	60%	-	0%	2,41	100%
Total	4,01	100%	10,03	100%	6,02	-60%

A 60% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-84%).

RSCR – REGIONAL SOLAR CEARÁ AND RIO GRANDE DO NORTE

FVAE – Photovoltaic Plant Assú V



CFFL – Photovoltaic Plant Floresta

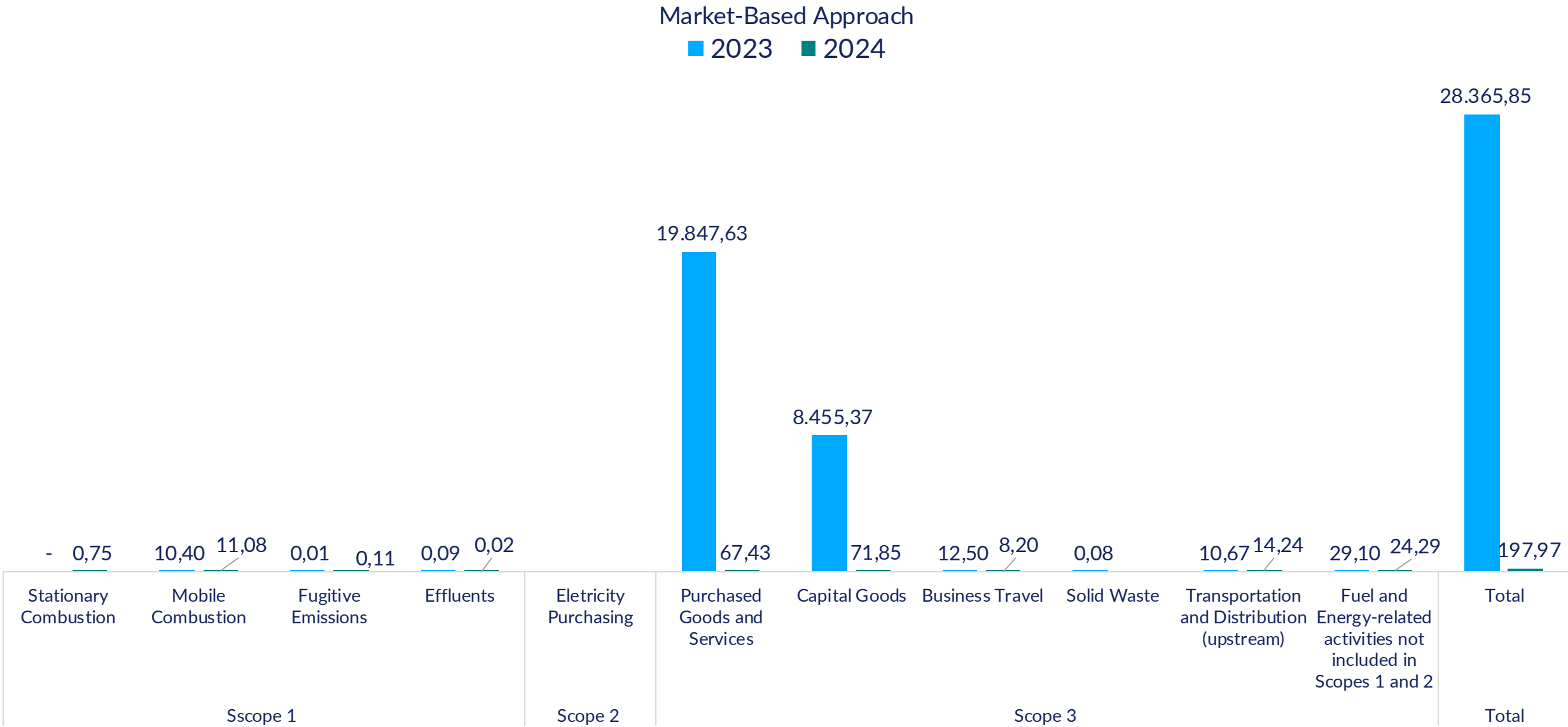


CFSF – Photovoltaic Plant Sol do Futuro



Results / Renewable / RSCR / FVAE – Photovoltaic Plant Assú V

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RSCR / FVAE – Photovoltaic Plant Assú V

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

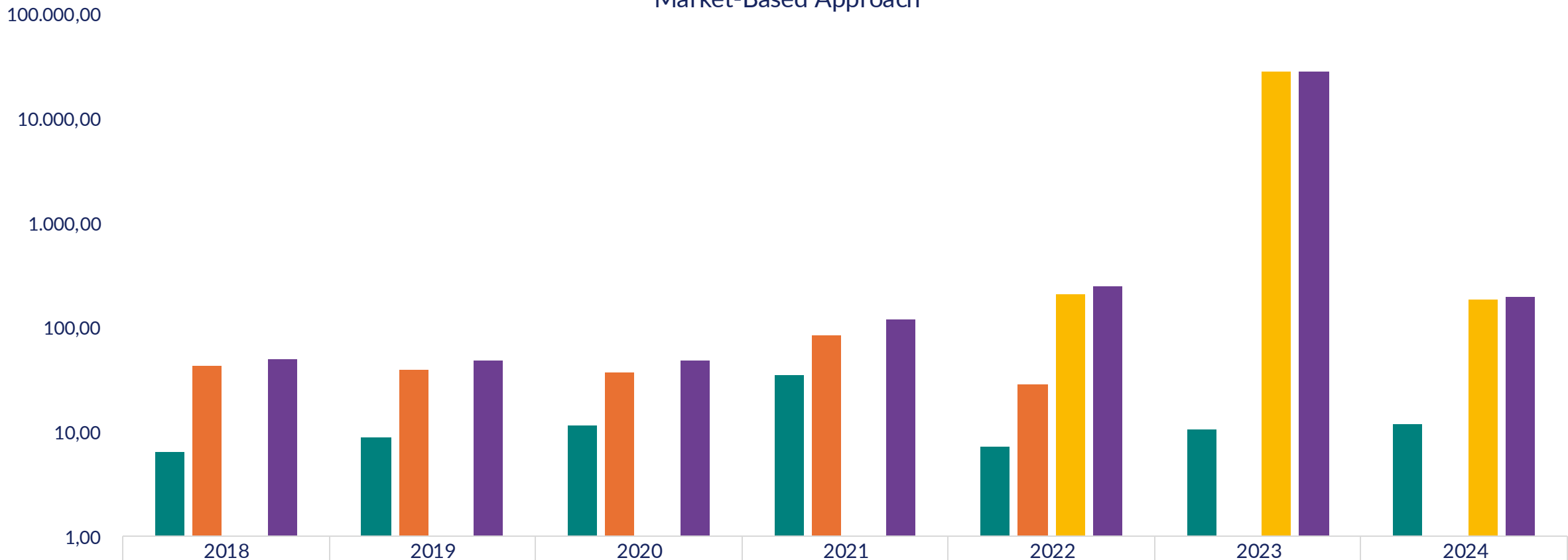
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	11,96	6%	10,50	0%	1,46	+14%
Stationary Combustion	0,75	0%	-	0%	0,75	100%
Mobile Combustion	11,08	6%	10,40	99%	0,68	7%
Fugitive Emissions	0,11	0%	0,01	0%	0,10	980%
Wastewater Treatment	0,02	0%	0,09	1%	0,07	-77%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	186,01	94%	28.355,35	100%	28.169,34	-99%
Purchased Goods and Services	67,43	34%	19.847,63	70%	19.780,20	-100%
Capital Goods	71,85	36%	8,455,37	30%	8,383.52	-99%
Business travel	8,20	4%	12,50	0%	4,30	34%
Waste	0,00	0%	0,08	0%	0,08	100%
Transportation and distribution (upstream)	14,24	7%	10,67	0%	3,57	33%
Fuel- and energy-related activities	24,29	12%	29,10	0%	4,81	-17%
Total	197,97	100%	28.365,85	100%	28.126,84	-99%

Emissions from the FVAE Unit decreased by 99% in 2024 compared to 2023. This reduction is associated with lower emissions from Purchased Goods and Services (-100%) and Capital Goods (-99%).

Results / Renewable / RSCR / FVAE – Photovoltaic Plant Assú V

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2018	2019	2020	2021	2022	2023	2024
Scope 1	6,42	8,84	11,46	35,55	7,23	10,50	11,96
Scope 2	42,64	39,62	36,97	84,22	28,54	-	-
Scope 3	0,45	0,32	-	0,28	211,48	28.355,34	186,01
Total Emissions	49,51	48,78	48,43	120,05	247,25	28.365,84	197,97

Results / Renewable / RSCR / FVAE – Photovoltaic Plant Assú V

Biogenic Emissions per Source (tCO_2) 2024 x 2023

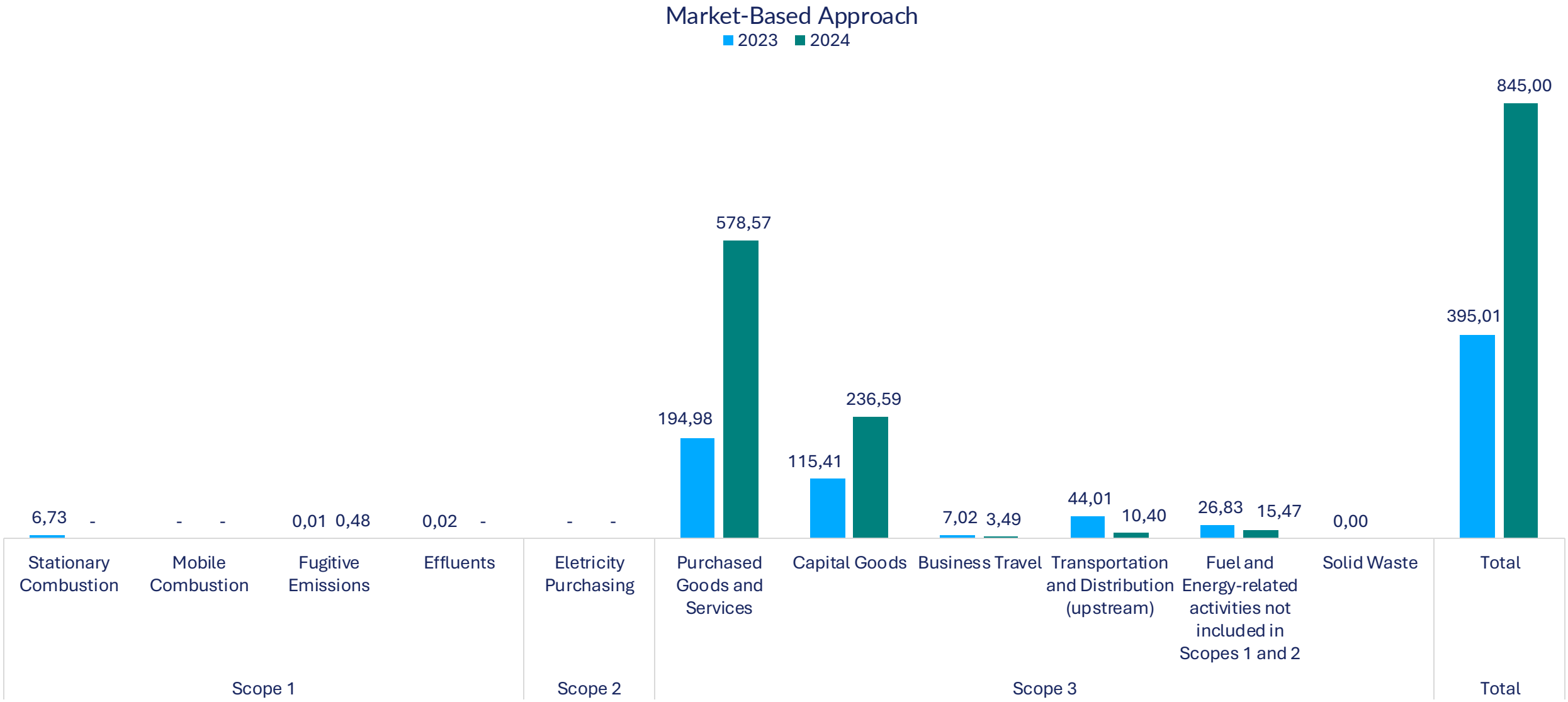
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	22,68	73%	11,77	68%	10,91	93%
Stationary Combustion	0,11	0%	-	0%	0,11	100%
Mobile Combustion	22,56	73%	11,77	68%	10,79	92%
Scope 3	8,42	27%	5,48	32%	2,94	54%
Business travel	4,75	15%	2,86	17%	1,89	66%
Transportation and distribution (upstream)	3,67	12%	2,62	15%	1,05	40%
Total	31,09	100%	17,25	100%	13,84	80%

An 80% increase in biogenic emissions in 2024 compared to 2023, primarily due to higher fuel consumption in Mobile Combustion (92%).

Unit without representativeness in the carbon stock and avoided emission generation of renewable energy.

Results / Renewable / RSCR / CFFL – Photovoltaic Plant Floresta

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RSCR / CFFL – Photovoltaic Plant Floresta

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

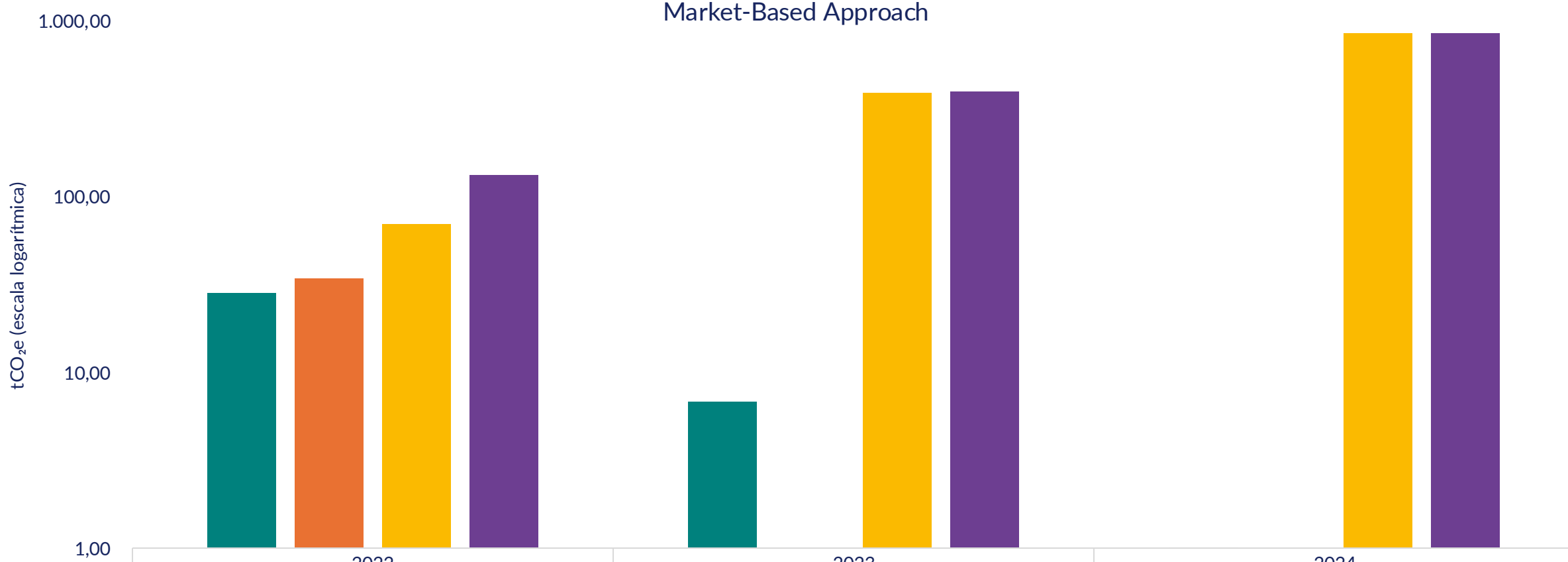
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	0,48	0,00	6,76	0,02	6,28	- 93%
Stationary Combustion	-	-	6,73	0,02	6,73	-100%
Mobile Combustion	-	-	-	-	-	-
Fugitive Emissions	0,48	0,00	0,01	0,00	0,47	4740%
Wastewater Treatment	-	-	0,02	0,00	0,02	-100%
Scope 2	-	-	-	-	-	-
Electricity Purchase	-	-	-	-	-	-
Scope 3	844,52	1,00	388,25	0,98	456,27	118%
Purchased Goods and Services	578,57	0,68	194,98	0,49	383,59	197%
Capital Goods	236,59	0,28	115,41	0,29	121,18	105%
Business travel	3,49	0,00	7,02	0,02	3,53	-50%
Transportation and distribution (upstream)	10,40	0,01	44,01	0,11	33,61	-76%
Fuel- and energy-related activities	15,47	0,02	26,83	0,07	11,36	-42%
Waste		-	0,001	0,00	0,00	100%
Total	845,00	1,00	395,01	1,00	449,99	114%

Emissions from the CFFL unit increased by 114% in 2024 compared to 2023. This increase is associated with higher emissions from Purchased Goods and Services (197%) and Capital Goods (105%).

Results / Renewable / RSCR / CFFL – Photovoltaic Plant Floresta

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2022	2023	2024
Scope 1	28,22	6,77	0,48
Scope 2	34,47	-	-
Scope 3	70,16	388,26	844,52
Total Emissions	132,85	395,03	845,00

Results / Renewable / RSCR / CFFL – Photovoltaic Plant Floresta

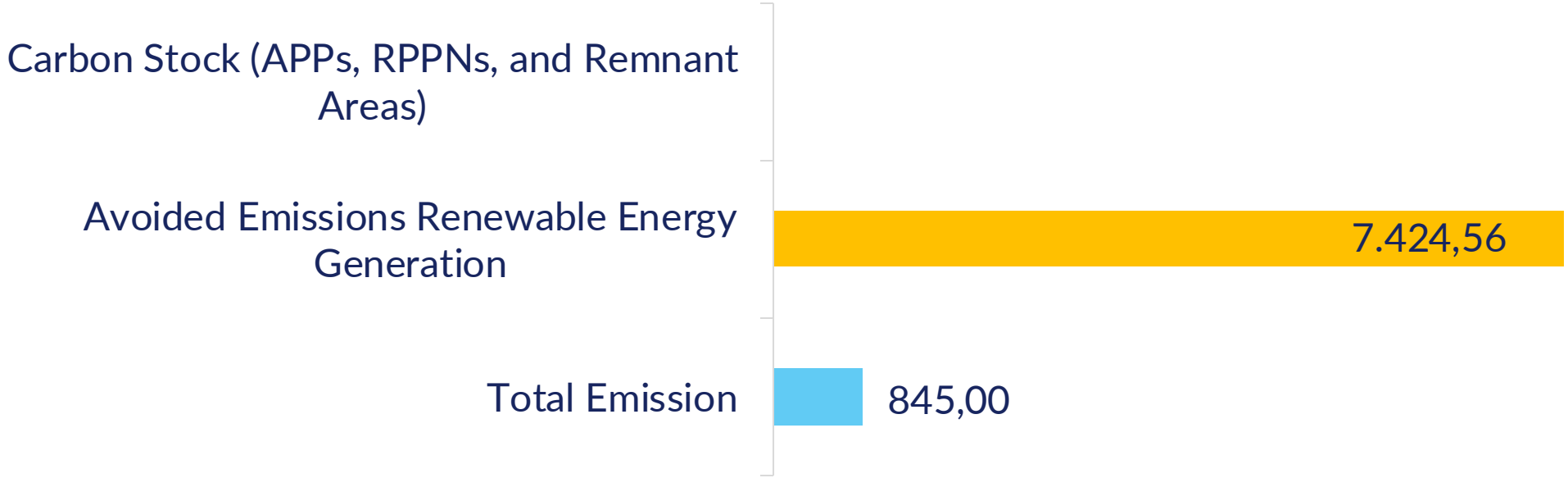
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	0,89	8%	(0,89)	-100%
Stationary Combustion	-	0%	0,89	8%	(0,89)	-100%
Mobile Combustion	-	0%	-	0%	-	-
Scope 3	4,11	100%	9,74	92%	5,63	58%
Business travel	1,57	38%	0,16	2%	1,41	881%
Transportation and distribution (upstream)	2,54	62%	9,58	90%	(7,04)	-73%
Total	4,11	100%	10,63	100%	(6,52)	-61%

A 61% decrease in biogenic emissions in 2024 compared to 2023, primarily due to reduction in fuel consumption for Transportation and Distribution (upstream) (-73%).

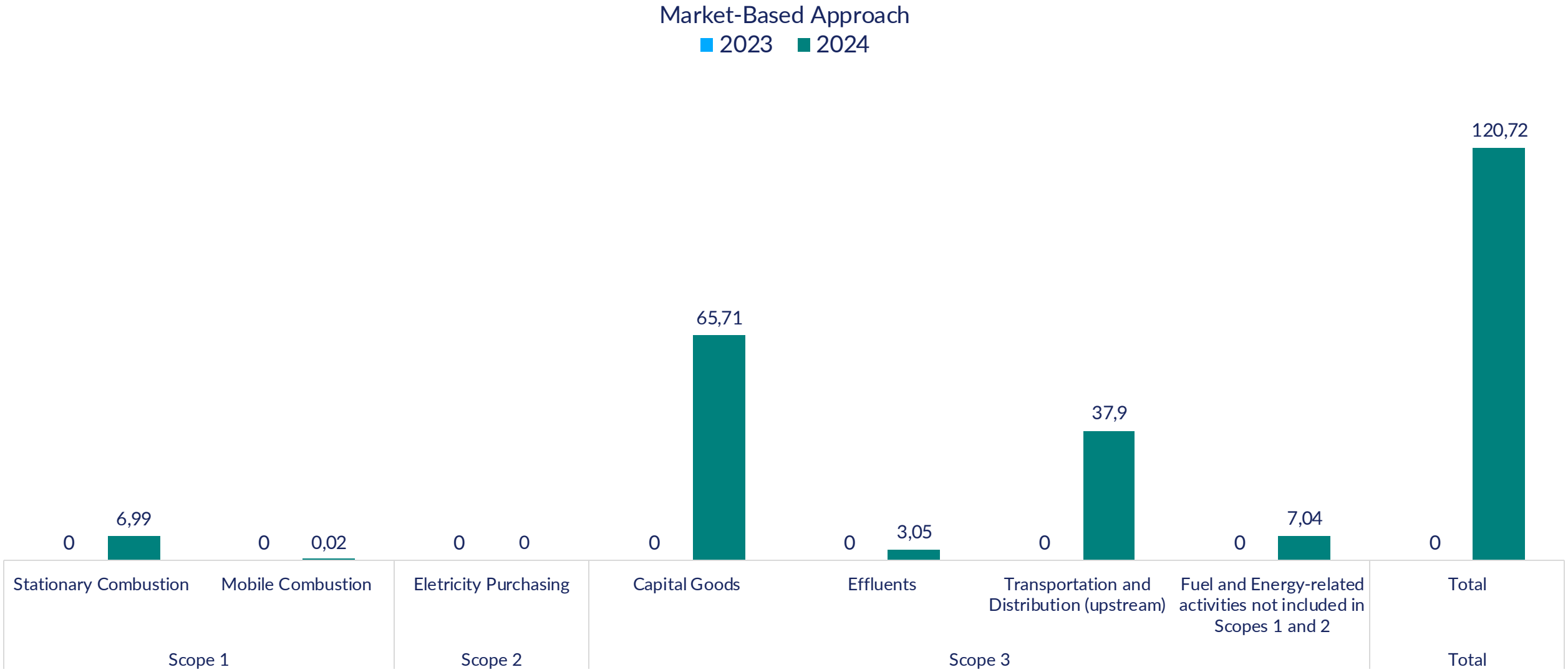
Results / Renewable / RSCR / CFFL – Photovoltaic Plant Floresta

Balance of Emissions (tCO_2e)



Results / Renewable / RSCR / CFSF - Photovoltaic Plant Sol do Futuro

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RSCR / CFSF - Photovoltaic Plant Sol do Futuro

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

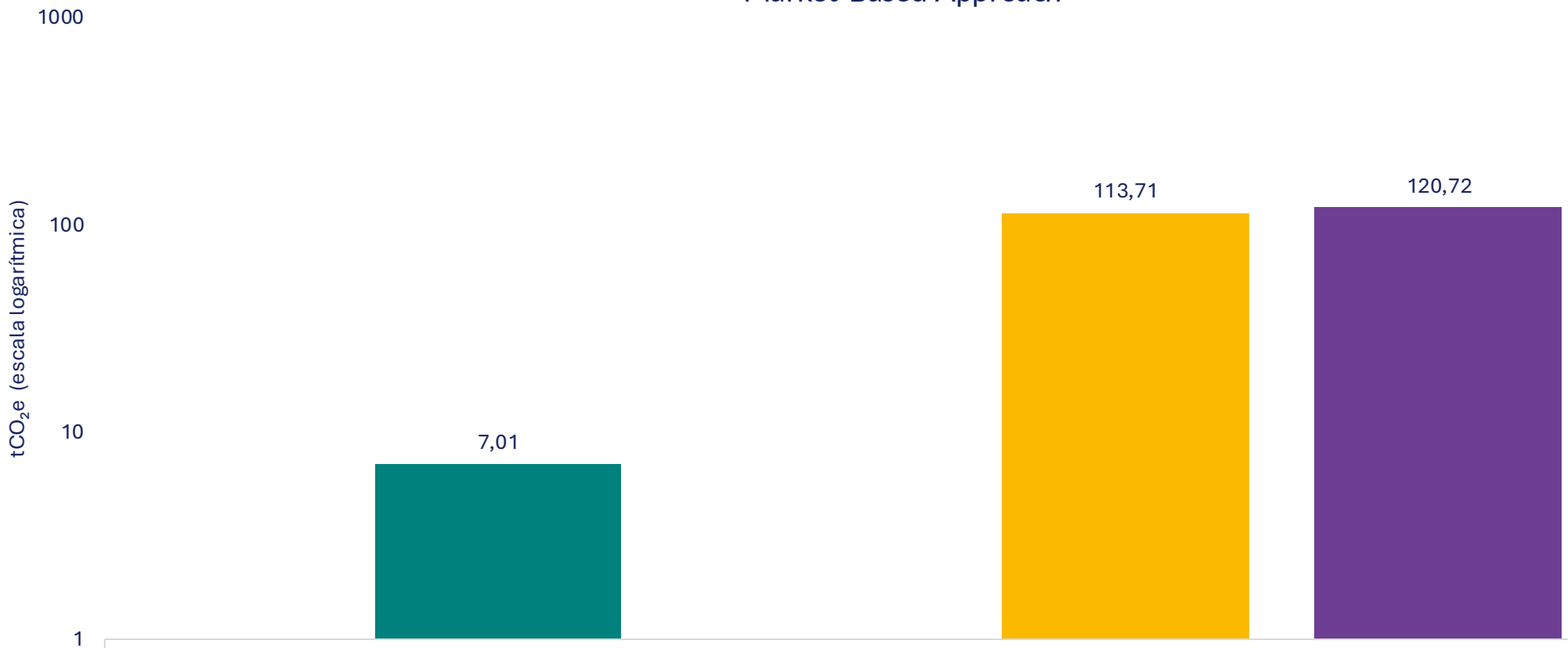
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	7,01	6%	-	0%	7,01	100%
Stationary Combustion	6,99	6%	-	0%	6,99	100%
Fugitive Emissions	0,02	0%	-	0%	0,02	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	113,71	94%	-	0%	113,71	100%
Capital Goods	65,71	54%	-	0%	65,71	100%
Wastewater Treatment	3,05	3%	-	0%	3,05	100%
Transportation and distribution (upstream)	37,90	31%	-	0%	37,90	100%
Fuel- and energy-related activities	7,04	6%	-	0%	7,04	100%
Total	120,72	100%	-	0%	146,7	100%

First year of plant operation, with the main emissions linked to the Capital Goods category. (54%)

Results / Renewable / RSCR / CFSF - Photovoltaic Plant Sol do Futuro

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2024
Scope 1	7,01
Scope 2	-
Scope 3	113,71
Total Emissions	120,72

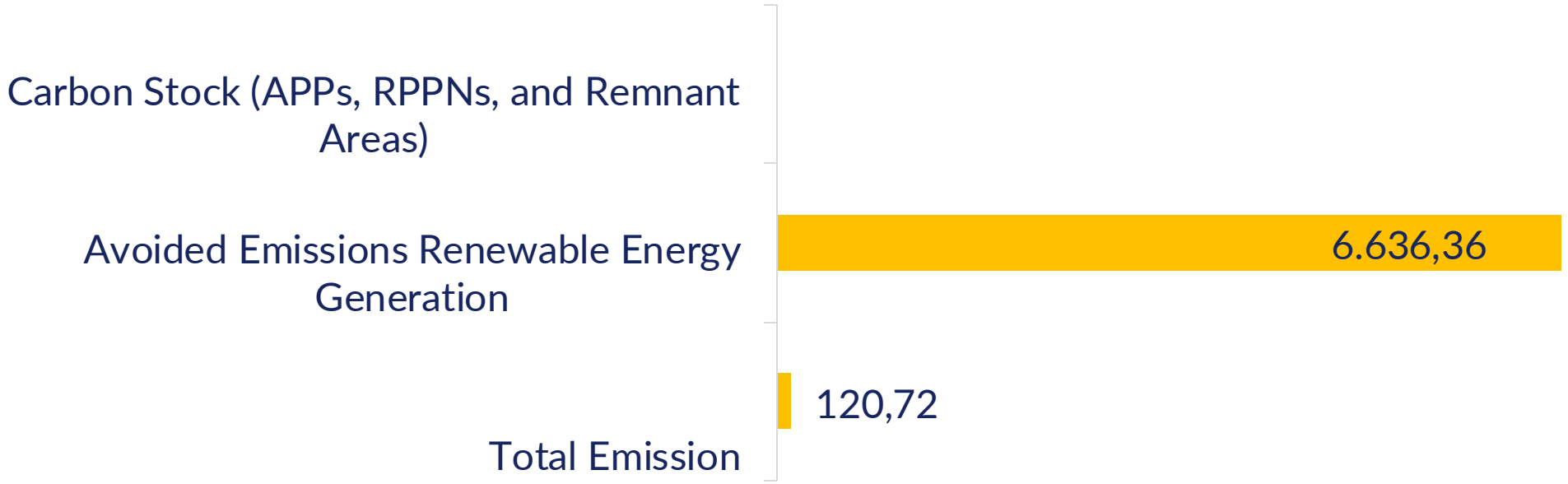
Results / Renewable / RSCR / CFSF - Photovoltaic Plant Sol do Futuro

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	1,76	14%	-	0%	1,76	100%
Stationary Combustion	1,76	14%	-	0%	1,76	100%
Scope 3	10,86	86%	-	0%	10,86	100%
Transportation and distribution (upstream)	10,86	86%	-	0%	10,86	100%
Total	12,62	100%	-	0%	12,62	100%

First year of unit measurement, with the main emissions linked to the Transportation and Distribution (upstream) category (86%).

Results / Renováveis / RSCR / CFSF - Photovoltaic Plant Sol do Futuro



RSBM– REGIONAL SOLAR BAHIA AND MINAS

CFPA – Photovoltaic Plant Paracatu



CFSP – Photovoltaic Plant São Pedro



CFLS – Photovoltaic Plant Lar do Sol



CFSB – Photovoltaic Plant Sertão Solar Barreiras



CFJS – Photovoltaic Plant Juazeiro Solar



UTFE – Termoelétric Plant Ferrari



UTIB – Termoelétric Plant Ibitiúva Bioenergética



UFCA – Photovoltaic Plant Cidade Azul



UETB – Wind Power Plant Tubarão



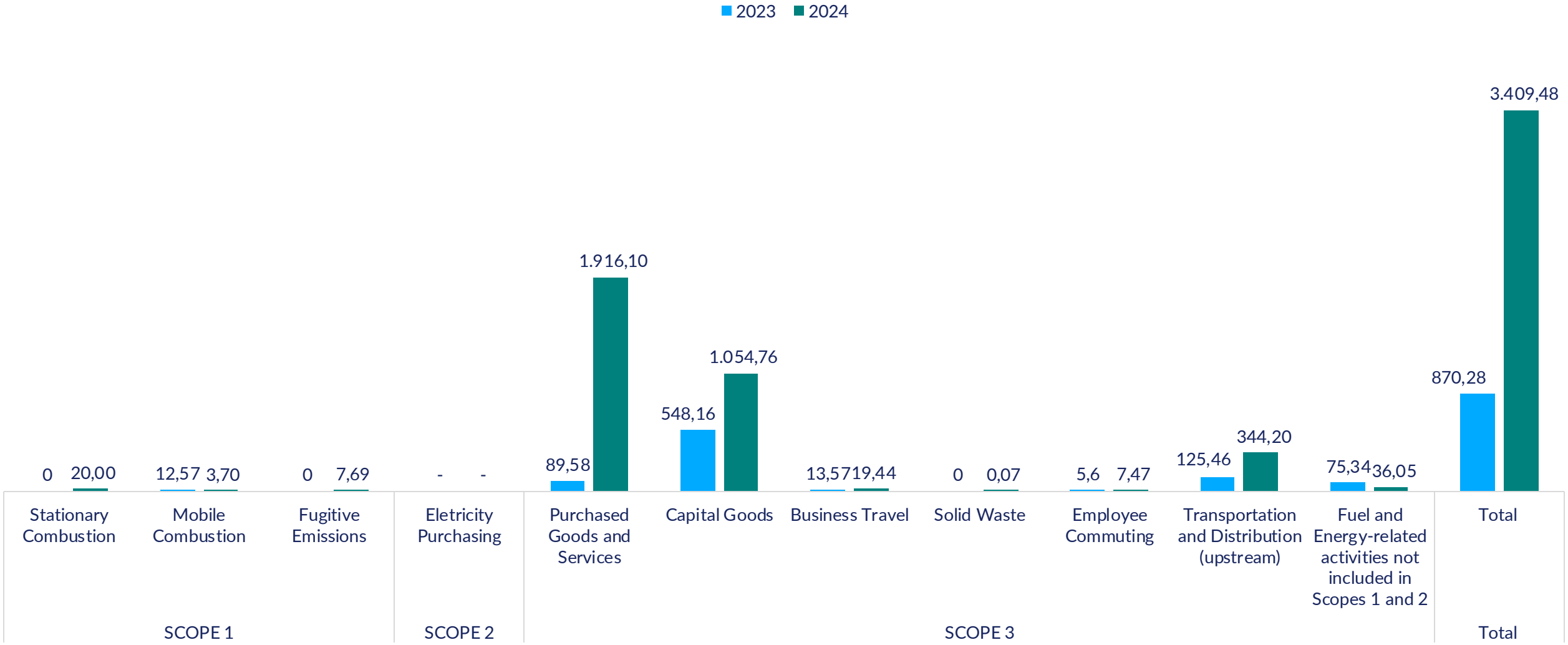
UCLA – Cogeneration Plant Lages



Results / Renewable / RSBM / CFPA – Photovoltaic Plant Paracatu

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / RSBM / CFPA – Photovoltaic Plant Paracatu

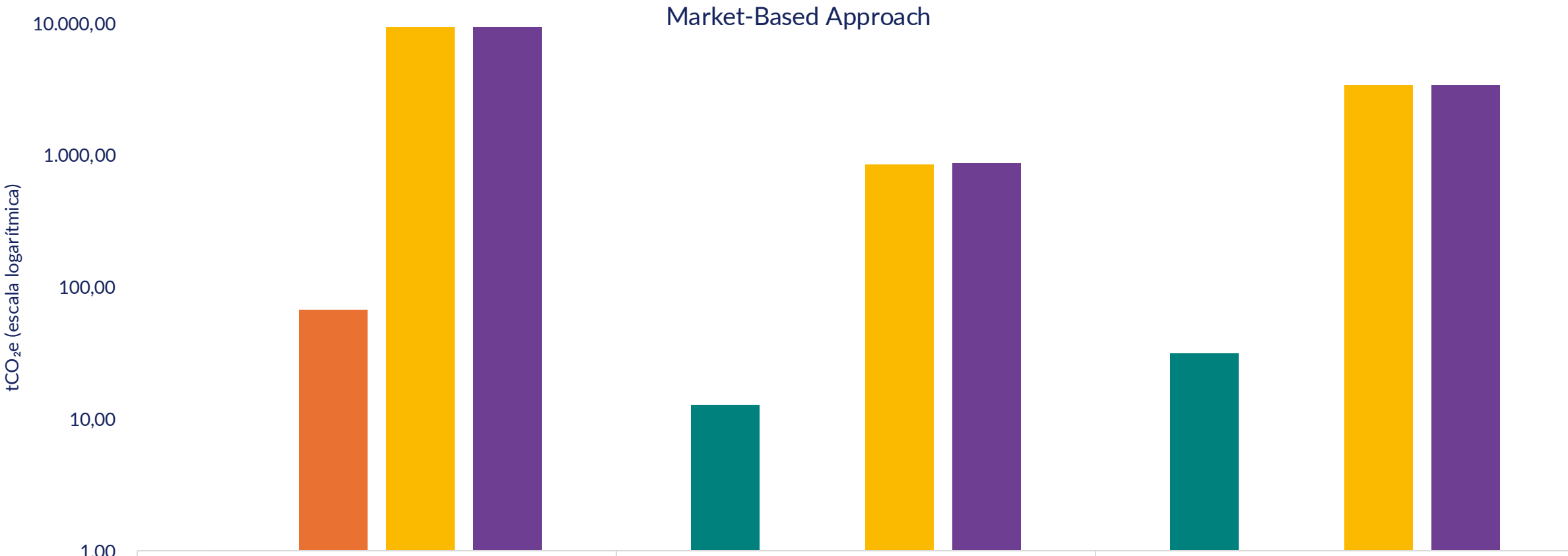
Emissions per Source (tCO_2e) 2024 x 2023
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	31,39	1%	12,57	1%	18,82	150%
Stationary Combustion	20,00	1%	0,00	0%	20,00	100%
Mobile Combustion	3,70	0%	12,57	1%	(8,87)	-71%
Fugitive Emissions	7,69	1%	0,00	0%	7,69	100%
Scope 2	-	0%	-	0%	-	0
Electricity Purchase	-	0%	-	0%	-	0
Scope 3	3.378,09	98%	857,71	99%	2,520,38	294%
Purchased Goods and Services	1.916,10	56%	89,58	10%	1,826,52	2039%
Capital Goods	1.054,76	30%	548,16	63%	506,60	92%
Business travel	19,44	1%	13,57	2%	5,87	43%
Waste	0,07	0%	0,00	0%	0,07	100%
Commuting	7,47	0%	5,60	1%	1,87	33%
Transportation and distribution (upstream)	344,20	10%	125,46	14%	218,74	174%
Fuel- and energy-related activities	36,05	1%	75,34	9%	(39,29)	-52%
Total	3.409,48	100%	870,28	100%	2.539,20	292%

Emissions from the CPA unit increased by 295% in 2024 compared to 2023. This change is associated with higher emissions from Purchased Goods and Services (2039%) and Capital Goods (92%).

Results / Renewable / RSBM / CFPA – Photovoltaic Plant Paracatu

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2022	2023	2024
Scope 1	0,22	12,57	31,39
Scope 2	66,74	-	-
Scope 3	9.402,71	857,71	3.378,09
Total Emissions	9.469,67	870,28	3.409,48

Results / Renewable / RSBM / CFPA – Photovoltaic Plant Paracatu

Biogenic Emissions per Source (tCO_2) 2024 x 2023

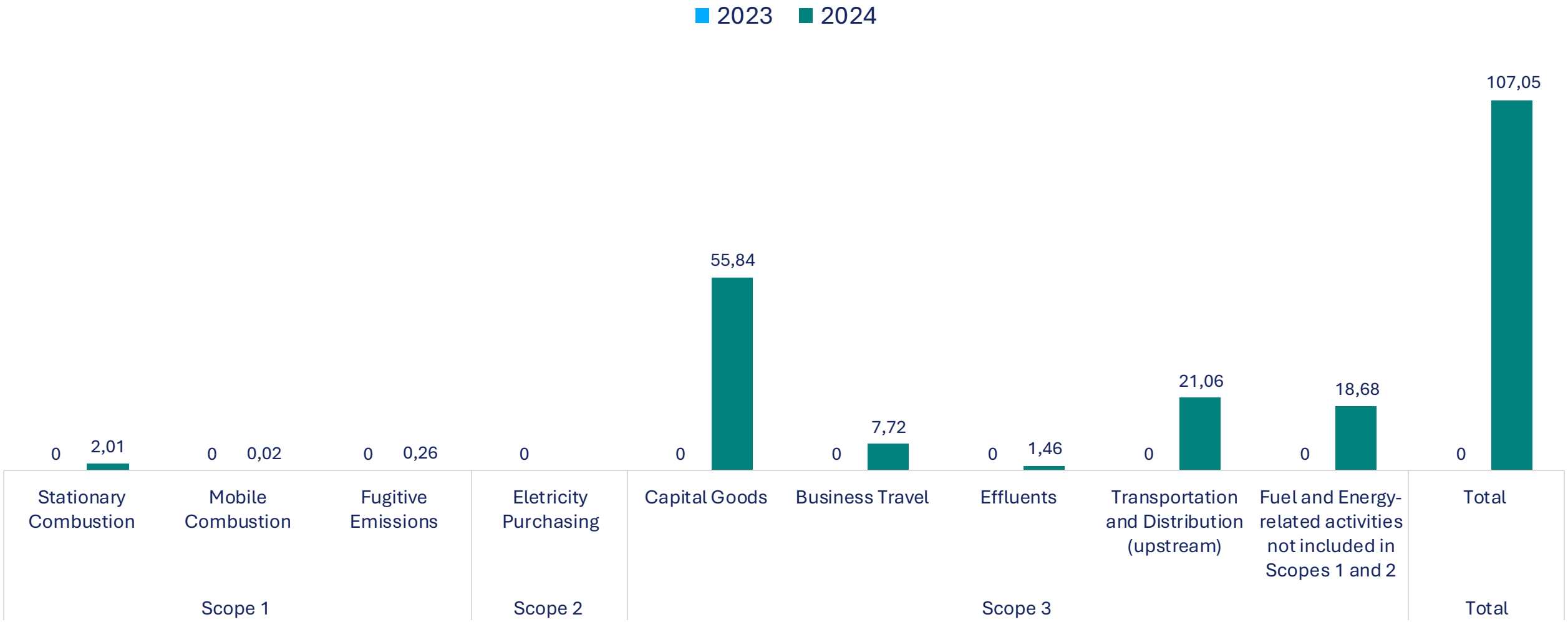
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	22,78	18%	10,19	20%	12,59	-124%
Stationary Combustion	3,25	3%	-	0%	3,25	100%
Mobile Combustion	19,53	15%	10,19	20%	9,34	-92%
Scope 3	106,60	82%	39,98	80%	66,62	167%
Business travel	4,27	3%	2,28	5%	1,99	87%
Purchased Goods and Services	3,91	3%	1,82	4%	2,09	115%
Commuting	1,08	1%	0,68	1%	0,40	60%
Transportation and distribution (upstream)	97,34	75%	35,20	70%	62,14	177%
Total	129,39	100%	50,17	100%	79,22	158%

A 158% increase in biogenic emissions in 2024 compared to 2023, primarily due to higher fuel consumption in Transportation and Distribution (upstream) (177%).

Results / Renewable / RSBM / CFSP - Photovoltaic Plant São Pedro

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / RSBM / CFSP - Photovoltaic Plant São Pedro

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

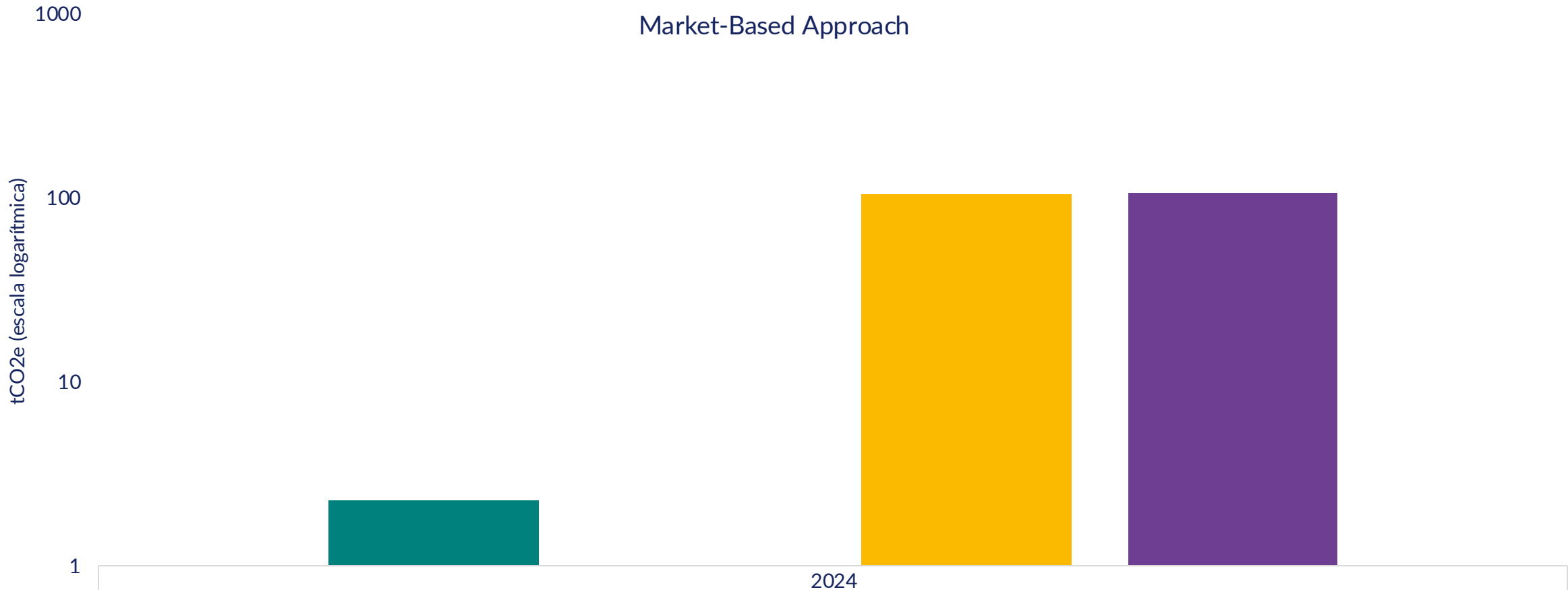
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	2,29	2%	-	0%	2,29	100%
Stationary Combustion	2,01	2%	-	0%	2,01	100%
Mobile Combustion	0,02	0%	-	0%	0,02	100%
Fugitive Emissions	0,26	0%	-	0%	0,26	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	104,76	98%	-	0%	104,76	100%
Capital Goods	55,84	52%	-	0%	55,84	100%
Business travel	7,72	7%	-	0%	7,72	100%
Wastewater Treatment	1,46	1%	-	0%	1,46	100%
Transportation and distribution (upstream)	21,06	20%	-	0%	21,06	100%
Fuel- and energy-related activities	18,68	17%	-	0%	18,68	100%
Total	107,05	100%	-	0%	205,15	100%

First year of unit measurement, with the main emissions linked to the Capital Goods category (52%).

Results / Renewable / RSBM / CFSP - Photovoltaic Plant São Pedro

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2024
Scope 1	2,29
Scope 2	-
Scope 3	104,76
Total Emissions	107,05

Results / Renewable / RSBM / CFSP - Photovoltaic Plant São Pedro

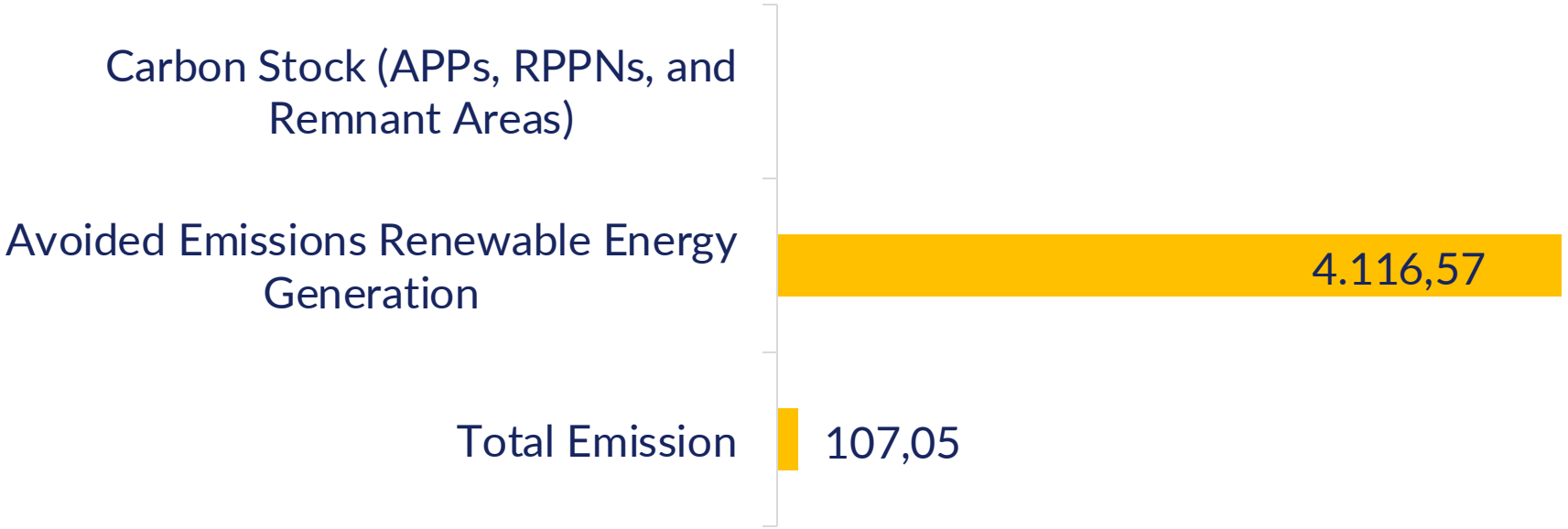
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	1,97	29%	-	0%	1,97	100%
Stationary Combustion	0,32	5%	-	0%	0,32	100%
Mobile Combustion	1,64	24%	-	0%	1,64	100%
Scope 3	4,80	71%	-	0%	4,80	100%
Transportation and distribution (upstream)	4,80	71%	-	0%	4,80	100%
Total	6,76	100%	-	0%	6,76	100%

First year of unit measurement, with the main emissions linked to the Transportation and Distribution (upstream) category (71%).

Results /Renewable / RSBM / CFSP - Photovoltaic Plant São Pedro

Balance of Emissions (tCO_2e)



Results / Renewable / RSBM / CFLS - Photovoltaic Plant Lar do Sol

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RSBM / CFLS - Photovoltaic Plant Lar do Sol

Emissions per Source (tCO_2e) 2024 x 2023
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	0,25	0%	-	0%	0,25	100%
Mobile Combustion	0,25	0%	-	0%	0,25	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	128,77	100%	-	0%	128,77	100%
Capital Goods	91,07	71%	-	0%	91,07	100%
Business travel	1,69	1%	-	0%	1,69	100%
Transportation and distribution (upstream)	29,76	23%	-	0%	29,76	100%
Fuel- and energy-related activities	6,25	5%	-	0%	6,25	100%
Total	129,02	100%	-	0%	162,23	100%

Results / Renewable / RSBM / CFLS - Photovoltaic Plant Lar do Sol

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



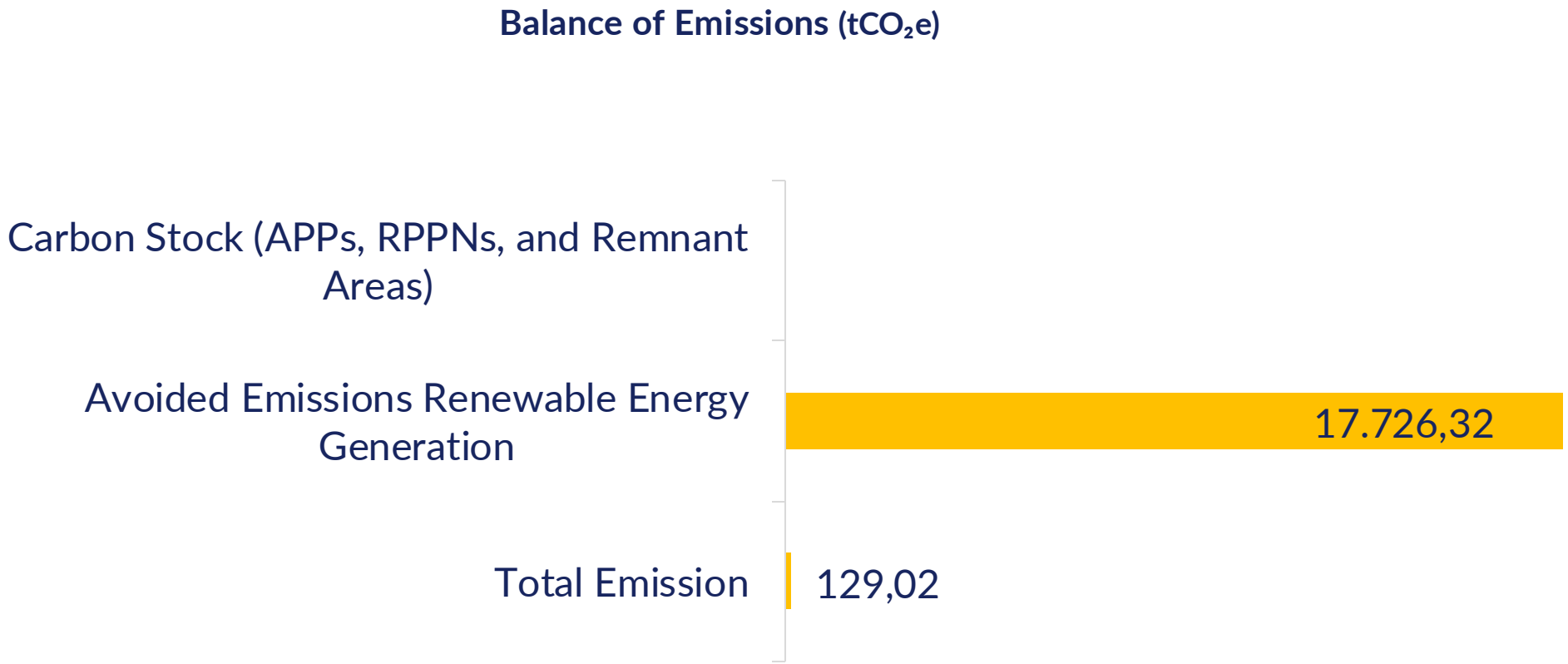
	2024
Scope 1	0,25
Scope 2	-
Scope 3	128,77
Total Emissions	129,02

Results / Renewable / RSBM / CFLS - Photovoltaic Plant Lar do Sol

Biogenic Emissions per Source (tCO_2) 2024 x 2023

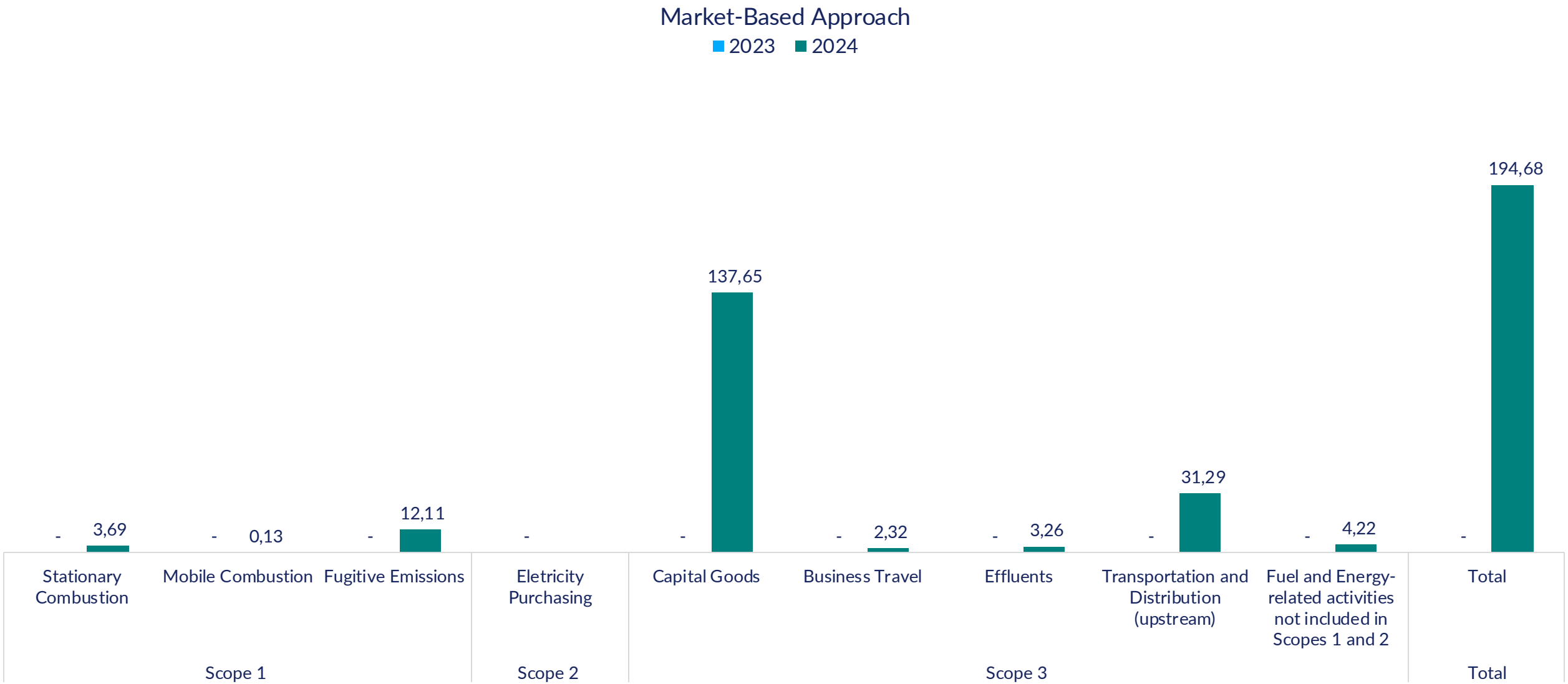
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	1,87	6%	-	0%	1,87	100%
Stationary Combustion	-	0%	-	0%	-	0%
Mobile Combustion	1,87	6%	-	0%	1,87	100%
Scope 3	29,32	94%	-	0%	29,32	100%
Transportation and distribution (upstream)	29,32	94%	-	0%	29,32	100%
Total	31,19	100%	-	0%	31,19	100%

Results / Renewable / RSBM / CFLS - Photovoltaic Plant Lar do Sol



Results/Renewable/CFSB – Photovoltaic Plant Sertão Solar Barreiras

Emissions Comparison 2024 x 2023 (tCO_2e)



Results/Renewable/RSBM/CFSB – Photovoltaic Plant Sertão Solar Barreiras

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

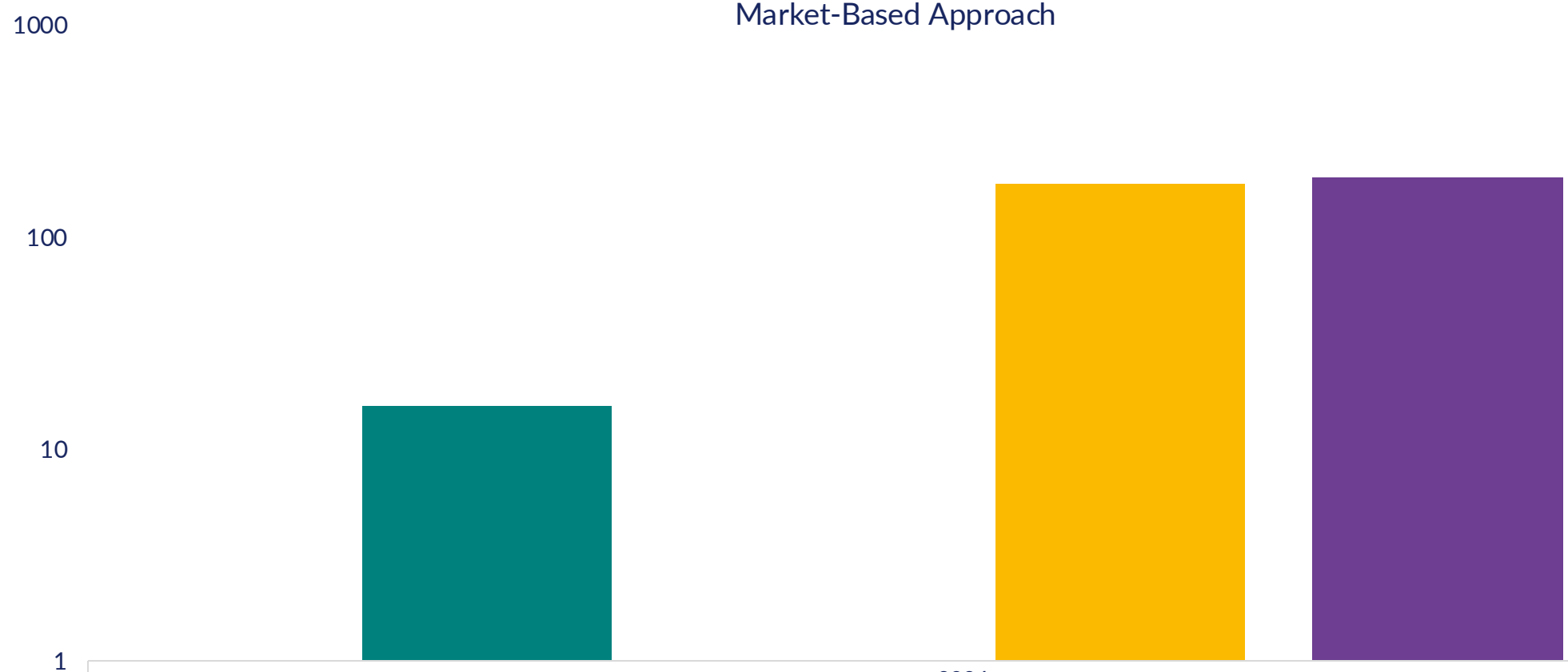
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	15,93	8%	-	0%	15,93	100%
Stationary Combustion	3,69	2%	-	0%	3,69	100%
Mobile Combustion	0,13	0%	-	0%	0,13	100%
Fugitive Emissions	12,11	6%	-	0%	12,11	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	178,75	92%	-	0%	178,75	100%
Capital Goods	137,65	71%	-	0%	137,65	100%
Business travel	2,32	1%	-	0%	2,32	100%
Wastewater Treatment	3,26	2%	-	0%	3,26	100%
Transportation and distribution (upstream)	31,29	16%	-	0%	31,29	100%
Fuel- and energy-related activities	4,22	2%	-	0%	4,22	100%
Total	194,68	100%	-	0%	194,68	100%

First year of unit measurement, with the main emissions linked to the Capital Goods category (71%).

Results/Renewable/RSBM/CFSB – Photovoltaic Plant Sertão Solar Barreiras

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2024
Scope 1	15,93
Scope 2	-
Scope 3	178,75
Total Emissions	194,68

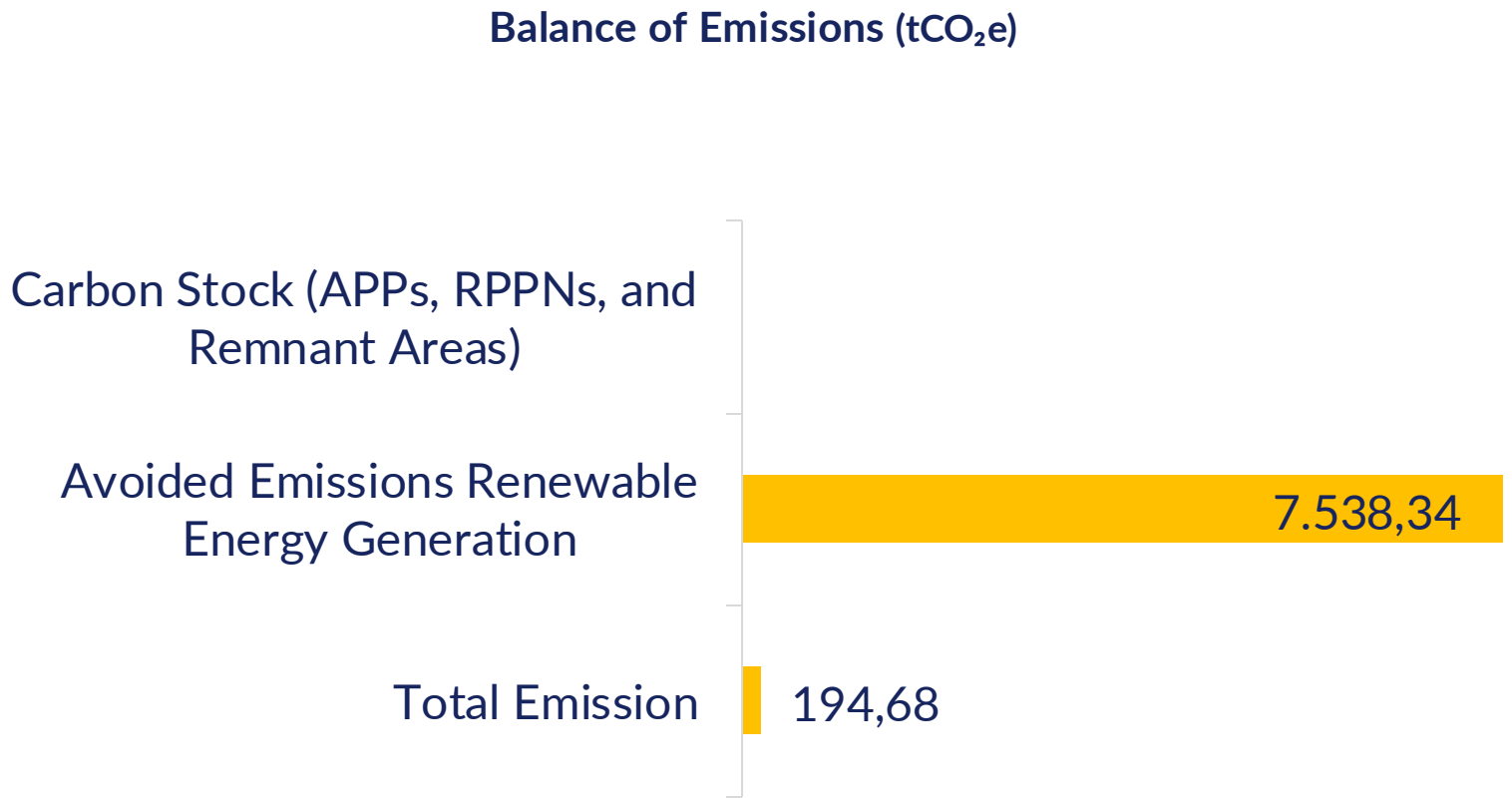
Results/Renewable/RSBM/CFSB – Photovoltaic Plant Sertão Solar Barreiras

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	2,37	23%	-	0%	2,37	100%
Stationary Combustion	0,94	9%	-	0%	0,94	100%
Mobile Combustion	1,43	14%	-	0%	1,43	100%
Scope 3	8,00	77%	-	0%	8,00	100%
Transportation and distribution (upstream)	8,00	77%	-	0%	8,00	100%
Total	10,36	100%	-	0%	10,36	100%

First year of unit measurement, with the main biogenic emissions linked to the Transportation and Distribution (upstream) category (77%).

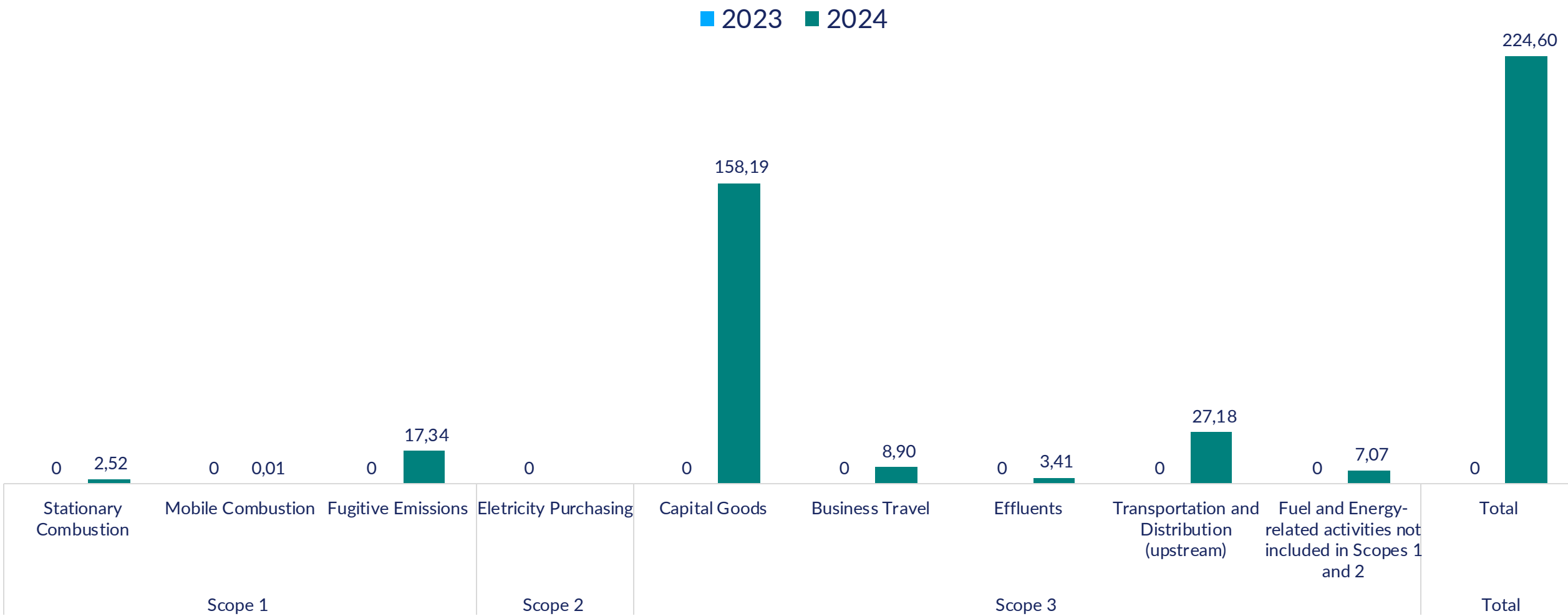
Results/Renewable/RSBM/CFSB – Photovoltaic Plant Sertão Solar Barreiras



Results/Renewable/RSBM/CFJS – Photovoltaic Plant Juazeiro Solar

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results/Renewable/RSBM/CFJS – Photovoltaic Plant Juazeiro Solar

Emissions per Source (tCO_2e) 2024 x 2023

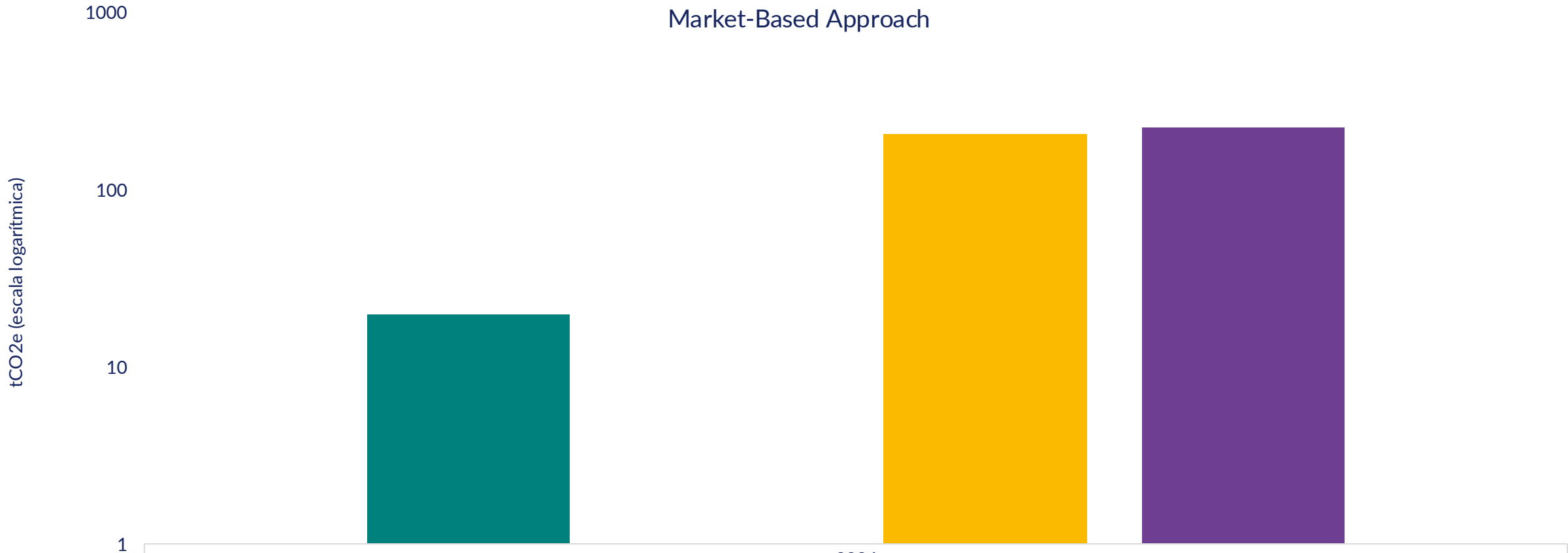
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	19,86	9%	-	0%	19,86	100%
Stationary Combustion	2,52	1%	-	0%	2,52	100%
Mobile Combustion	0,01	0%	-	0%	0,01	100%
Fugitive Emissions	17,34	8%	-	0%	17,34	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	204,74	91%	-	0%	204,74	100%
Capital Goods	158,19	70%	-	0%	158,19	100%
Business travel	8,90	4%	-	0%	8,90	100%
Wastewater Treatment	3,41	2%	-	0%	3,41	100%
Transportation and distribution (upstream)	27,18	12%	-	0%	27,18	100%
Fuel- and energy-related activities	7,07	3%	-	0%	7,07	100%
Total	224,60	100%	-	0%	262,64	100%

First year of unit measurement, with the main emissions linked to the Capital goods category (70%).

Results/Renewable/RSBM/CFJS – Photovoltaic Plant Juazeiro Solar

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2024
Scope 1	19,86
Scope 2	-
Scope 3	204,74
Total Emissions	224,6

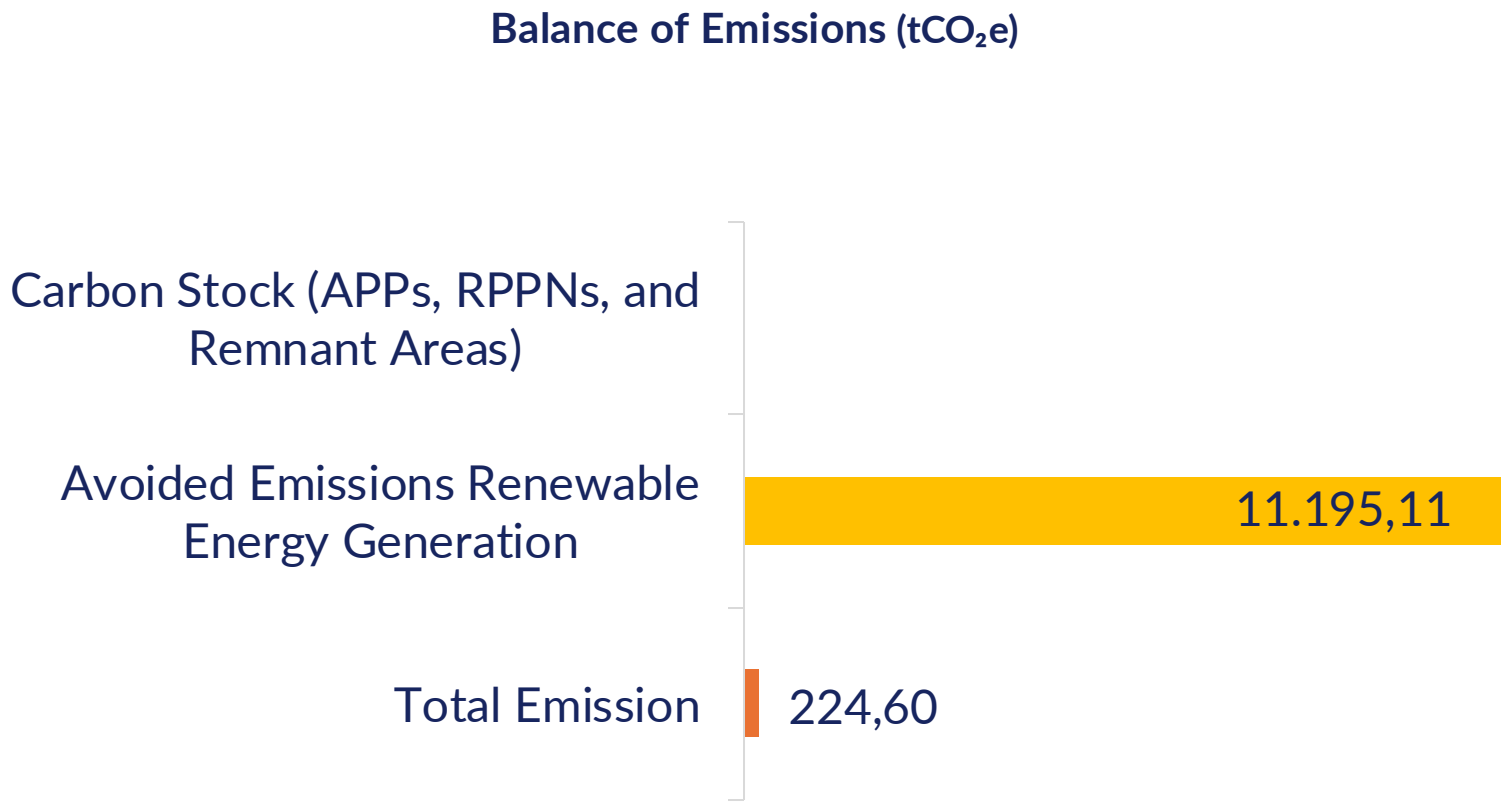
Results/Renewable/RSBM/CFJS – Photovoltaic Plant Juazeiro Solar

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	0,96	11%	-	0%	0,96	100%
Stationary Combustion	0,41	5%	-	0%	0,41	100%
Mobile Combustion	0,55	6%	-	0%	0,55	100%
Scope 3	7,95	89%	-	0%	7,95	100%
Transportation and distribution (upstream)	7,95	89%	-	0%	7,95	100%
Total	8,91	100%	-	0%	8,91	100%

First year of unit measurement, with the main biogenic emissions linkedto the Transportation and Distribution (upstream) category (89%).

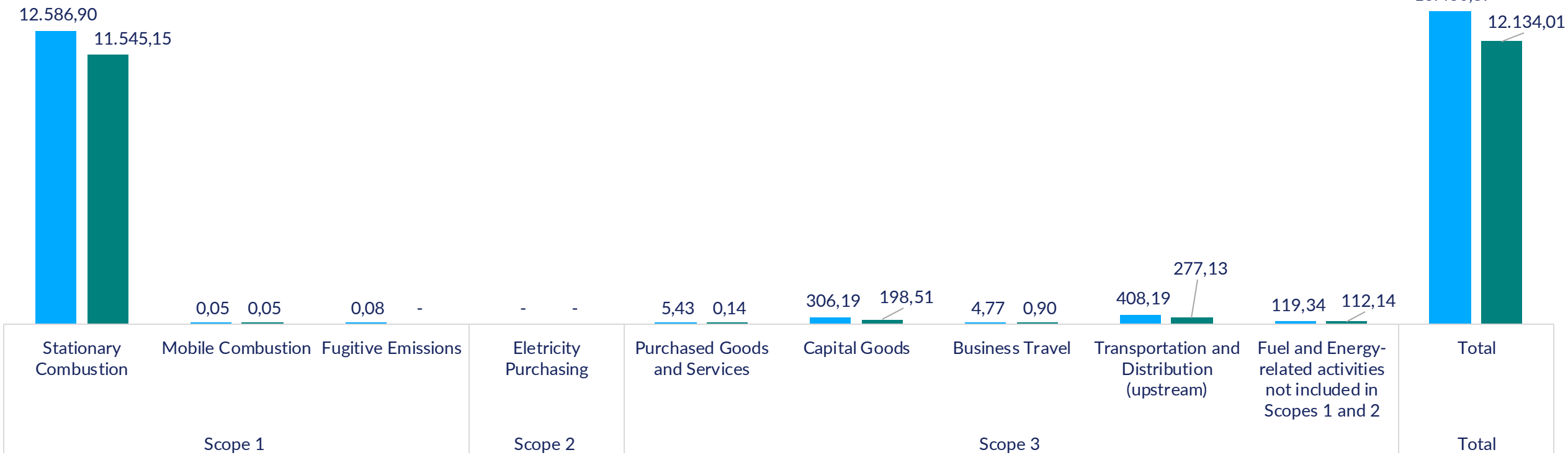
Results/Renewable/RSBM/CFJS – Photovoltaic Plant Juazeiro Solar



Results / Renewable / RSBM / UTFE - Ferrari Thermoelectric Plant

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / RSBM / UTFE - Ferrari Thermoelectric Plant

Emissions per Source (tCO_2e) 2024 x 2023

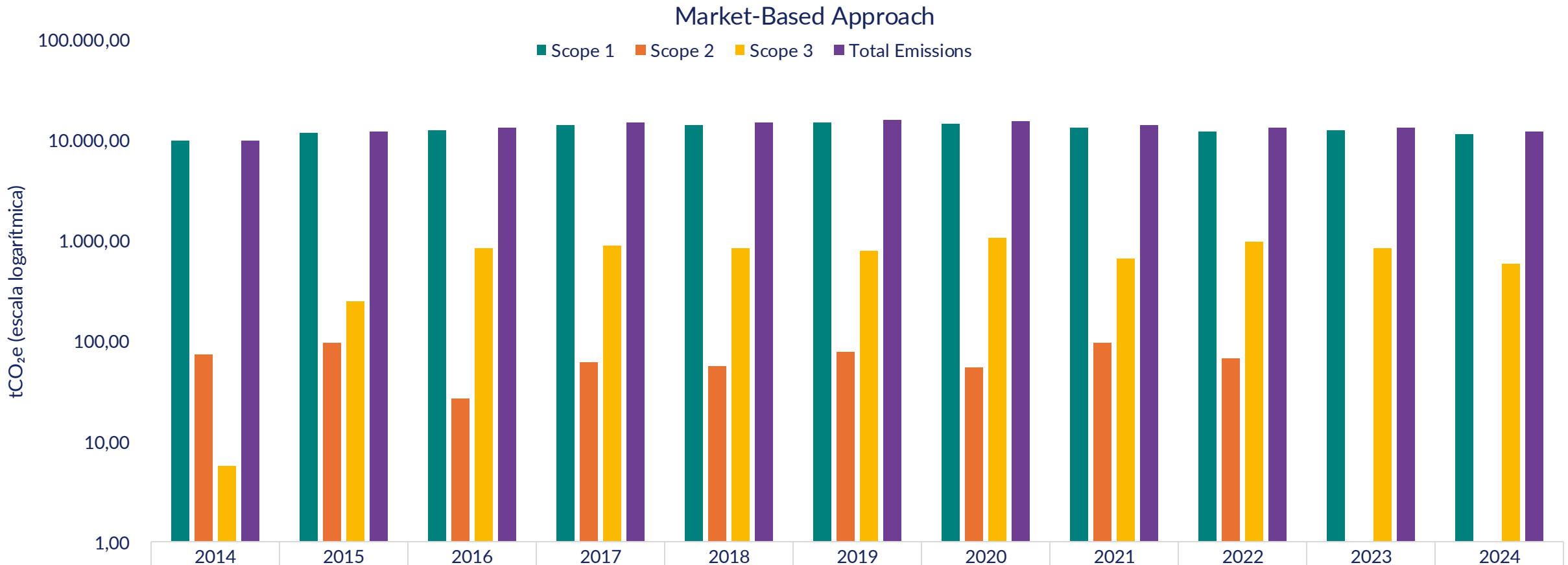
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	11.545,20	95%	12.586,95	94%	(1.041,75)	-8%
Stationary Combustion	11.545,15	95%	12.586,90	94%	(1.041,75)	-8%
Mobile Combustion	0,05	0%	0,05	0%	-	0%
Emissões Fugitiva	-	0%	0,08	0%	(0,08)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	588,82	5%	843,92	6%	(255,10)	-30%
Purchased Goods and Services	0,14	0%	5,43	0%	(5,29)	-97%
Capital Goods	198,51	2%	306,19	2%	(107,68)	-35%
Business travel	0,90	0%	4,77	0%	(3,87)	-81%
Transportation and distribution	277,13	2%	408,19	3%	(131,06)	-32%
Fuel- and energy-related activities (not included in scope 1 or scope 2)	112,14	1%	119,34	1%	(7,20)	-6%
Total	12.134,01	100%	13.430,87	100%	(1.296,86)	-10%

Emissions from the UTFE unit decreased by 10% in 2024 compared to 2023. This change is associated with lower emissions from Stationary Combustion (-8%).

Results / Renewable / RSBM / UTFE - Ferrari Thermoelectric Plant

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	9.953,05	11779,33	12621,98	13956,67	14013,7	14927,17	14426,19	13516,23	12159,01	12587,02	11.545,20
Scope 2	73,44	96,75	27,16	61,19	56,6169	78,04	55,53	96,38	67,34	-	-
Scope 3	5,75	249,51	835,41	902,81	837,19	800,46	1062,18	667,57	990,22	843,91	588,82
Total Emissions	10.032,24	12.125,59	13.484,55	14.920,67	14.907,51	15.805,67	15.543,90	14.280,18	13.216,57	13.430,93	12.134,01

Results / Renewable / RSBM / UTFE - Ferrari Thermoelectric Plant

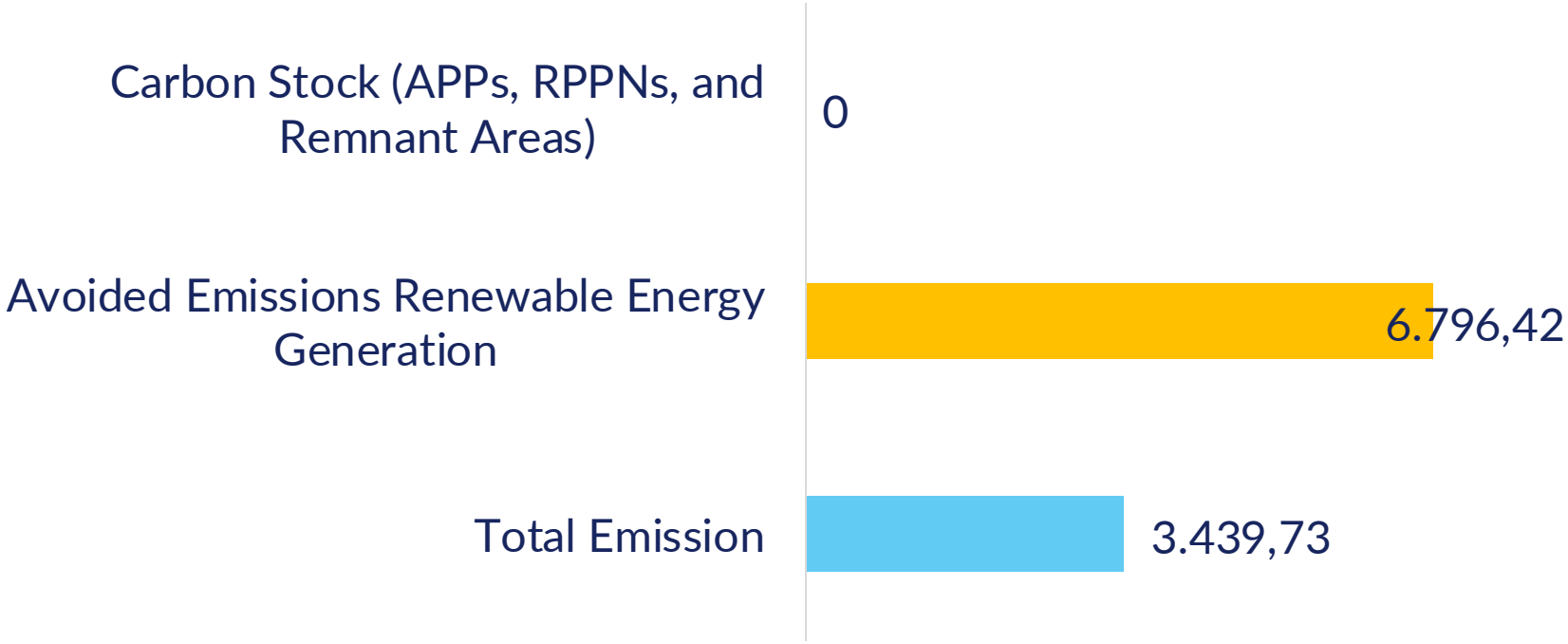
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	608.671,18	100%	663.560,55	100%	(54.889,37)	-8%
Stationary Combustion	608.666,11	100%	663.555,75	100%	(54,889,64)	-8%
Mobile Combustion	5,07	0%	4,80	0%	0,27	6%
Scope 3	41,87	0%	51,96	0%	(10,09)	-19%
Business travel	0,42	0%	1,04	0%	(0,62)	-59%
Transportation and distribution	41,45	0%	50,92	0%	9,47	19%
Total	608.713,05	100%	663.612,51	100%	54,899,46	8%

An 8% decrease in the biogenic emissions in 2024 capared to 2023, primarily due to a reduction in fuel consumption for Stationary Combustion (-8%).

Results / Renewable / RSBM / UTFE - Ferrari Thermoelectric Plant

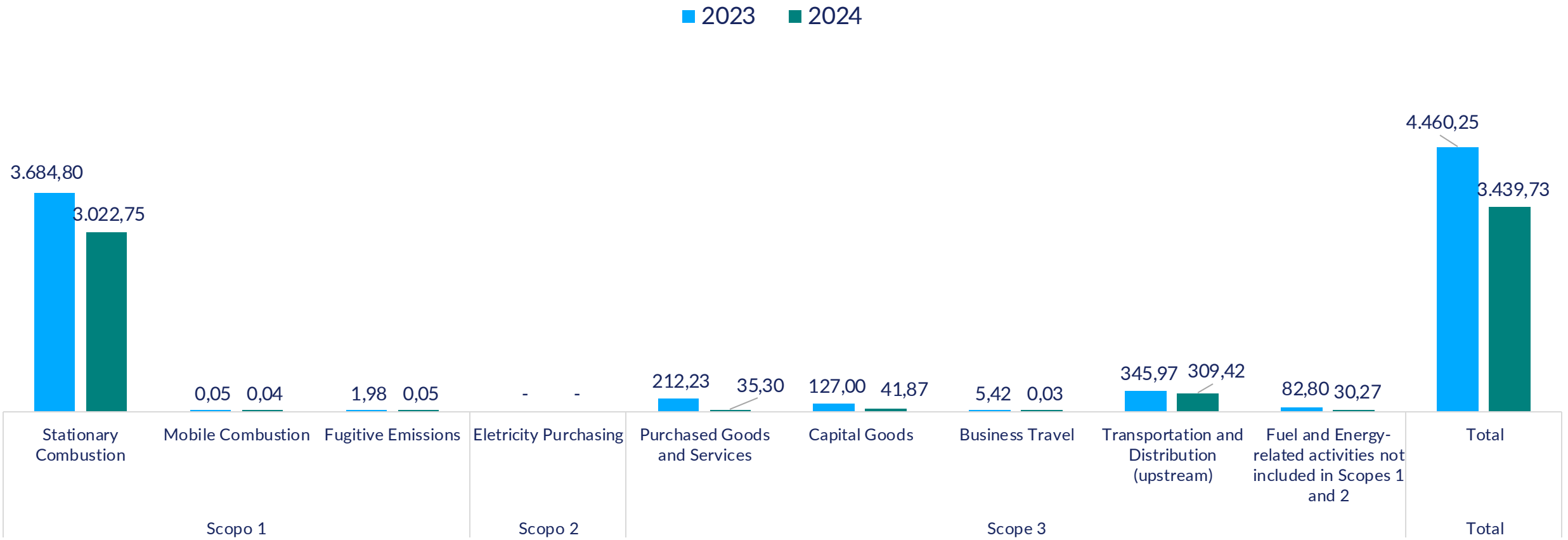
Balance of Emissions (tCO_2e)



Results / Renewable / RSBM / UTIB – Ibitiúva Thermoelectric Plant

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / RSBM / UTIB – Ibitiúva Thermoelectric Plant

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	3.022,84	88%	3,686.83	83%	663,99	18%
Stationary Combustion	3.022,75	88%	3.684,80	83%	662,05	18%
Mobile Combustion	0,04	0%	0,05	0%	0,01	29%
Fugitive Emissions	0,05	0%	1,98	0%	(1,93)	-97%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	416,89	12%	773,42	17%	(356,53)	-46%
Purchased Goods and Services	35,30	1%	212,23	5%	(176,93)	-83%
Capital Goods	41,87	1%	127,00	3%	(85,13)	-67%
Business travel	0,03	0%	5,42	0%	(5,39)	-100%
Transportation and distribution (upstream)	309,42	9%	345,97	8%	(36,55)	-11%
Fuel- and energy-related activities (not included in scope 1 or scope 2)	30,27	1%	82,80	2%	(52,53)	-63%
Total	3.439,73	100%	4.460,25	100%	(1.020,52)	-23%

Emissions from the UTIB unit decreased by 23% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-83%).

Results / Renewable / RSBM / UTIB – Ibitiúva Thermoelectric Plant

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	4.257	7.648	5.081	5.082	38.830	5.007	5.689	5.017	4.911	4.650	4.811	2.975	4.291	3.687	3.023
Scope 2	63	26	30	56	91	102	52	55	46	32	32	91	26	-	-
Scope 3	-	11	3	4	2	5	4	415	337	229	433	191	3.979	773	417
Total Emissions	4.320	7.685	5.114	5.142	38.923	5.114	5.745	5.487	5.294	4.911	5.276	3.257	8.296	4.460	3.440

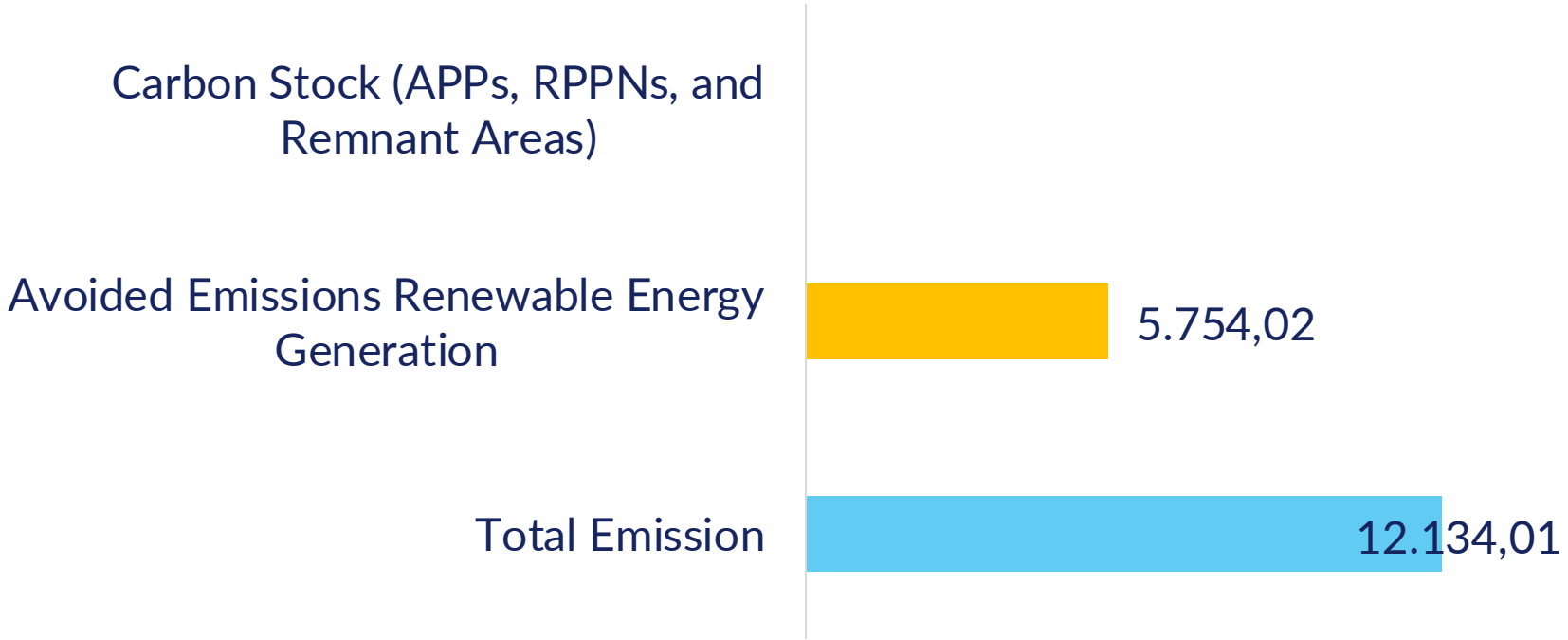
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	159.056,77	100%	193.952,11	100%	(34.895,34)	-18%
Stationary Combustion	159.053,11	100%	193.947,13	100%	(34.894,02)	-18%
Mobile Combustion	3,66	0%	4,98	0%	(1,32)	-27%
Scope 3	46,05	0%	44,64	0%	1,41	3%
Transportation and distribution (upstream)	46,04	0%	43,33	0%	2,71	6%
Business travel	0,01	0%	1,31	0%	(1,30)	-100%
Total	159.102,82	100%	193.996,75	100%	(34.893,93)	-18%

An 18% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Stationary Combustion (-18%).

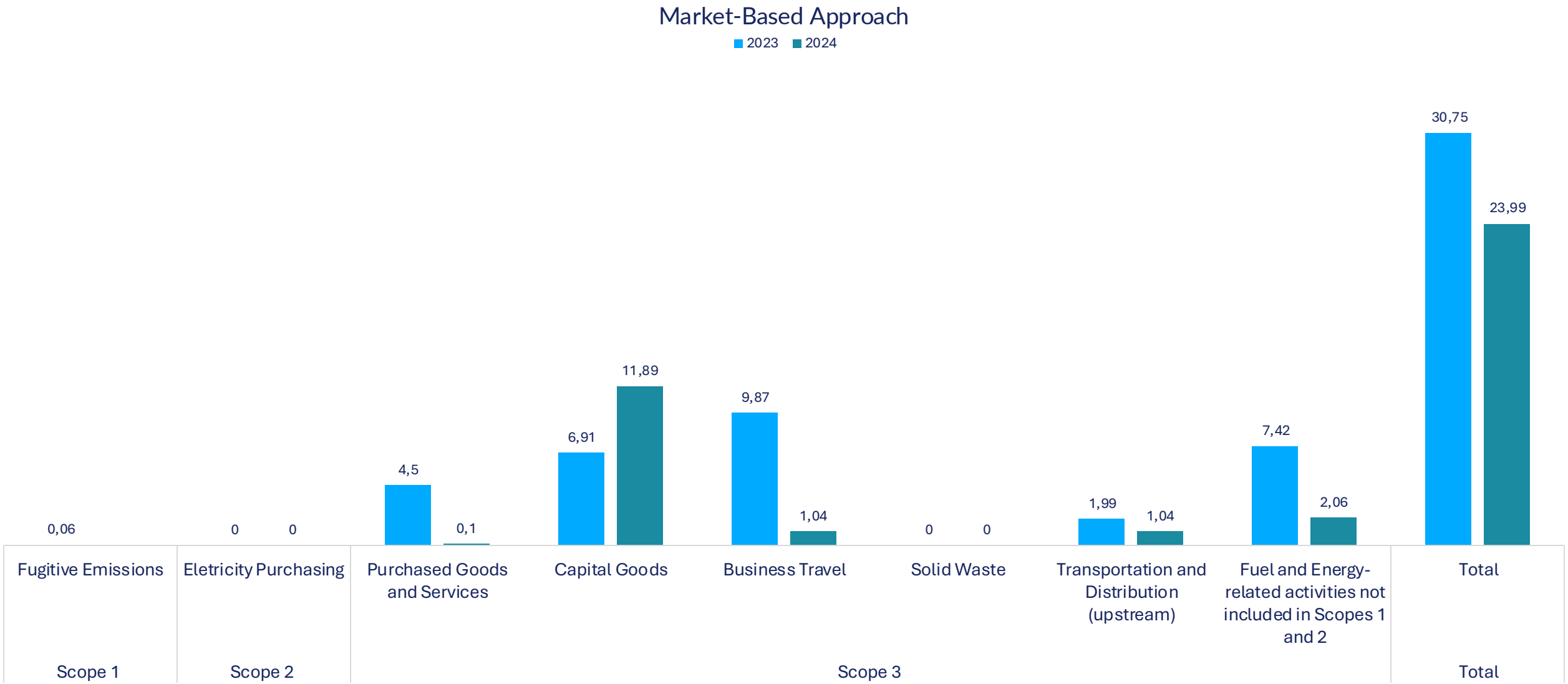
Results / Renewable / RSBM / UTIB – Ibitiúva Thermoelectric Plant

Balance of Emissions (tCO_2e)



Results / Renewable / RSBM / ECA - Photovoltaic Plant Cidade Azul

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RSBM / UFCA - Photovoltaic Plant Cidade Azul

Emissions per Source (tCO_2e) 2024 x 2023
Market-Based Approach

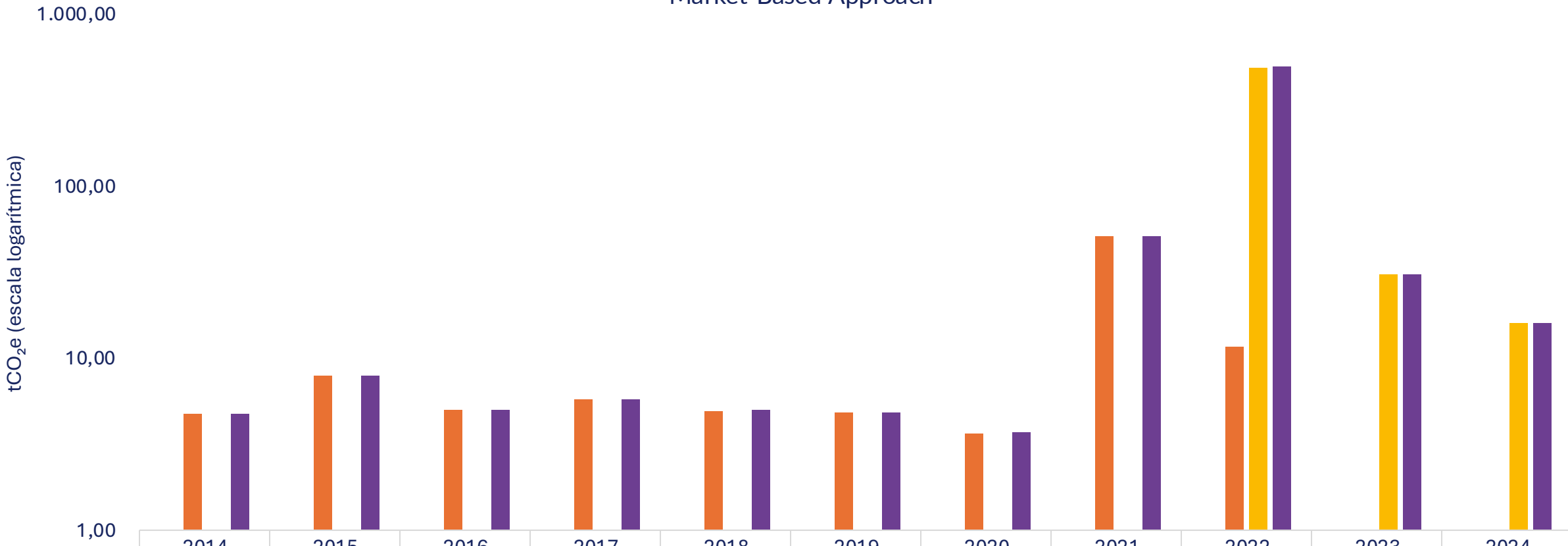
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	0,06	0%	(0,06)	-100%
Fugitive Emissions	-	0%	0,06	0%	(0,06)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	16,13	67%	30,69	100%	(14,56)	-47%
Purchased Goods and Services	0,10	0%	4,50	15%	(4,40)	-98%
Capital Goods	11,89	50%	6,91	22%	4,98	72%
Business travel	1,04	4%	9,87	32%	(8,83)	-89%
Waste	0,00	0%	0,00	0%	0,00	0%
Transportation and distribution (upstream)	1,04	4%	1,99	6%	(0,95)	-48%
Fuel- and energy-related activities	2,06	9%	7,42	24%	(5,36)	-72%
Total	16,13	100%	30,75	100%	(14,62)	-48%

Emissions from the UFCA unit decreased by 48% in 2024 compared to 2023. This change is associated with lower emissions from Business Travel (-89%), Purchased Goods and Services (-98%), and fuel- and energy-related assets not included in Scopes 1 and 2 (-72%).

Results / Renewable / UFCA - Photovoltaic Plant Cidade Azul

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	-	0,05	-	0,04	0,05	-	0,05	0,05	0,00	0,06	-
Scope 2	4,74	7,91	4,99	5,76	4,92	4,80	3,65	51,28	11,74	-	-
Scope 3	-	-	-	-	-	-	-	-	486,98	30,68	16,13
Total	4,74	7,96	4,99	5,80	4,97	4,80	3,70	51,33	498,72	30,74	16,13

Results / Renewable / UFCA - Photovoltaic Plant Cidade Azul

Biogenic Emissions per Source (tCO_2) 2024 x 2023

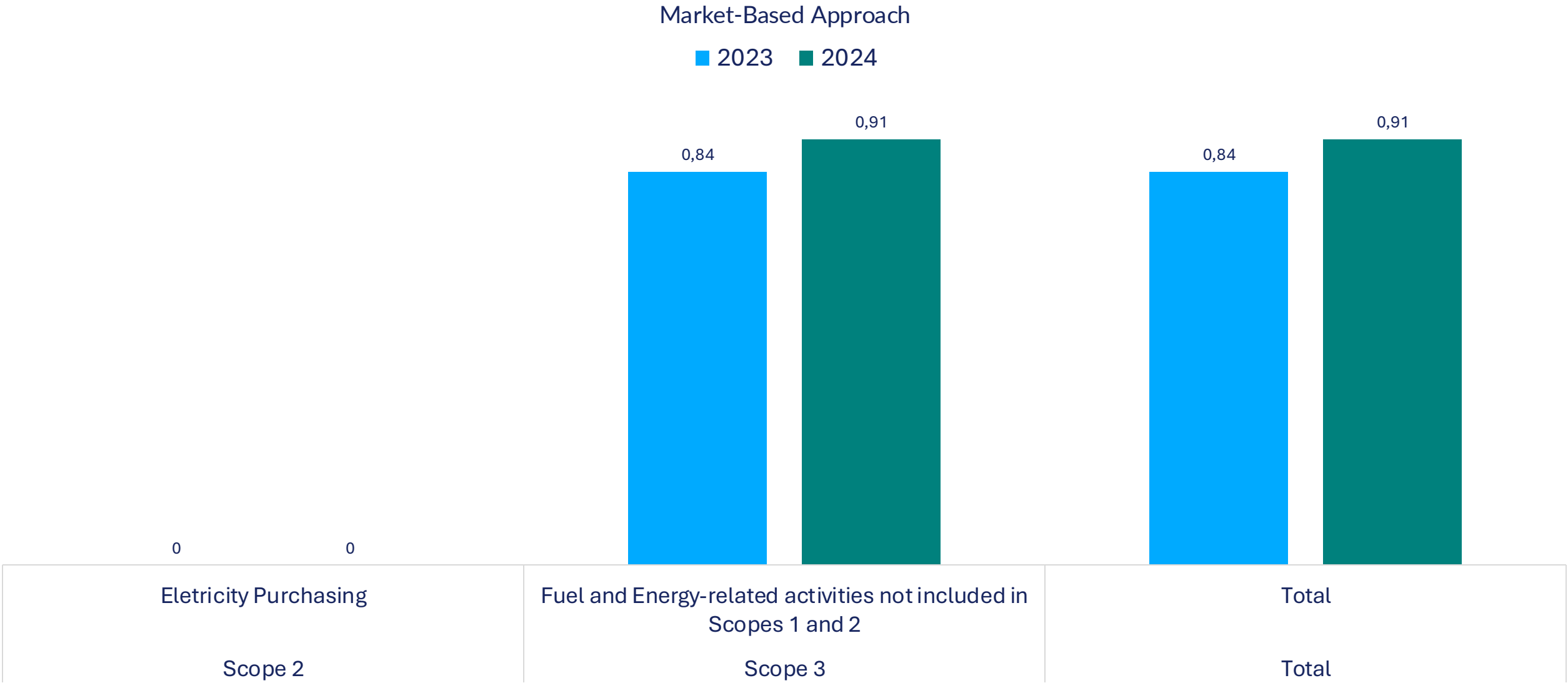
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	-	0%	-	0%
Scope 3	4,07	100%	5,28	100%	(1,21)	-23%
Business travel	0,26	6%	2,41	46%	(2,15)	-89%
Transportation and distribution (upstream)	3,81	94%	2,87	54%	0,94	33%
Total	4,07	100%	5,28	100%	(1,21)	-23%

A 23% decrease in Biogenic Emissions in 2024 compared to 2023, mainly due to the decrease in fuel consumption in Business travel (-89%).

Unit without representativeness in the carbon stock and avoided emission generation of renewable energy.

Results / Renewable / UETB - Wind Power Plant Tubarão

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / UETB - Wind Power Plant Tubarão

Emissions per Source (tCO_2) 2024 x 2023

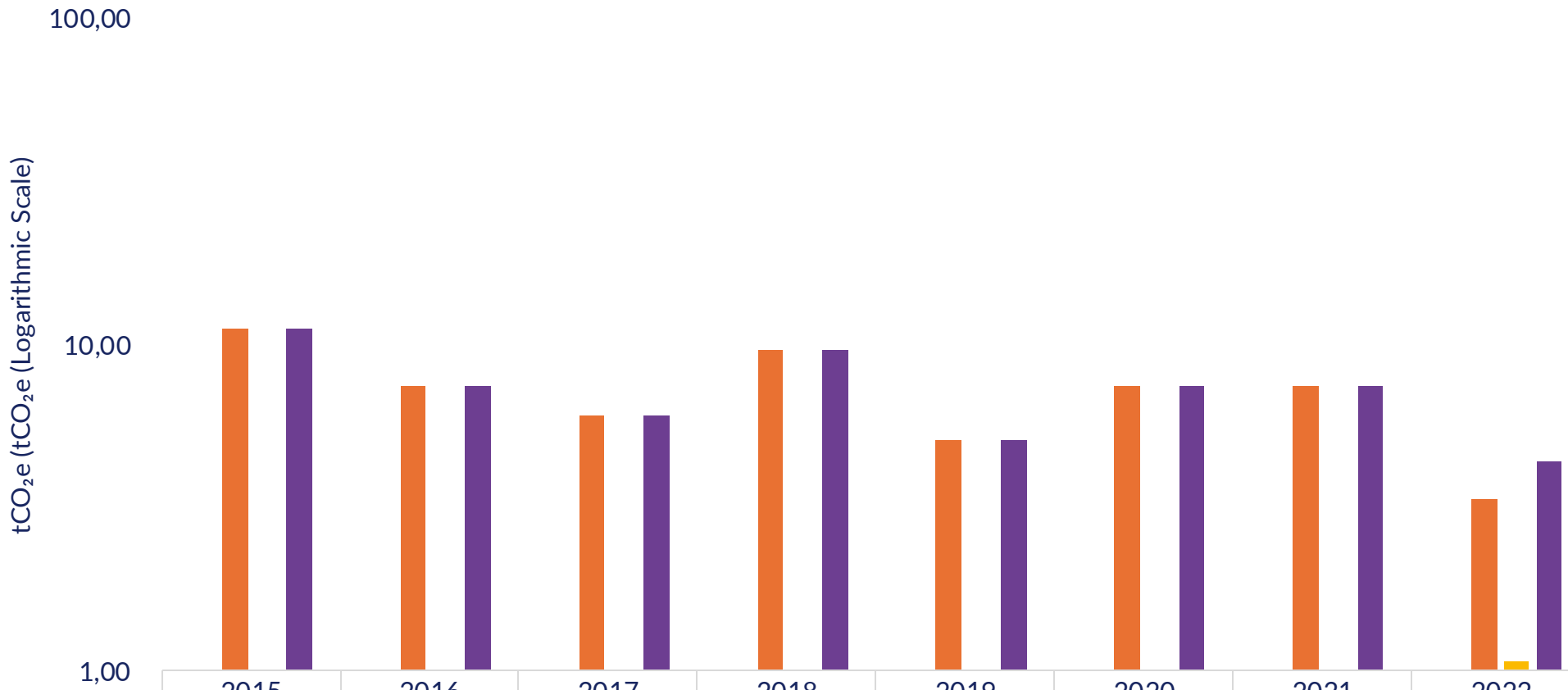
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	-	0%	-	0%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	0,91	100%	0,84	100%	0,07	8%
Fuel- and energy-related activities	0,91	100%	0,84	100%	0,07	8%
Total	0,91	100%	0,84	100%	0,07	8%

> An 8% increase in emissions in 2024 compared to 2023, resulting from higher fuel consumption in Other Combustion and Energy Activities (8%).

Results/Renewable/UETB - Wind Power Plant Tubarão

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	-	-	-	-	-	-	-	-	-	-
Scope 2	11,2	7,44	6,04	9,63	5,07	7,45	7,48	3,34	-	-
Scope 3	-	-	-	-	-	-	-	1,06	0,84	0,91
Total Emissions	11,2	7,44	6,04	9,63	5,07	7,45	7,48	4,4	0,84	0,91

Results/Renewable/UETB - Wind Power Plant Tubarão

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	-	0%	-	0%
Stationary Combustion	-	0%	-	0%	-	0%
Mobile Combustion	-	0%	-	0%	-	0%
Scope 3	-	0%	-	0%	-	0%
Business travel	-	0%	-	0%	-	0%
Purchased Goods and Services	-	0%	-	0%	-	0%
Transportation and distribution (upstream)	-	0%	-	0%	-	0%
Total	-	0%	-	0%	-	0%

Results / Renewable / RSBM / UCLA - Unidade de Cogeração Lages

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RSBM / UCLA - Unidade de Cogeração Lages

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

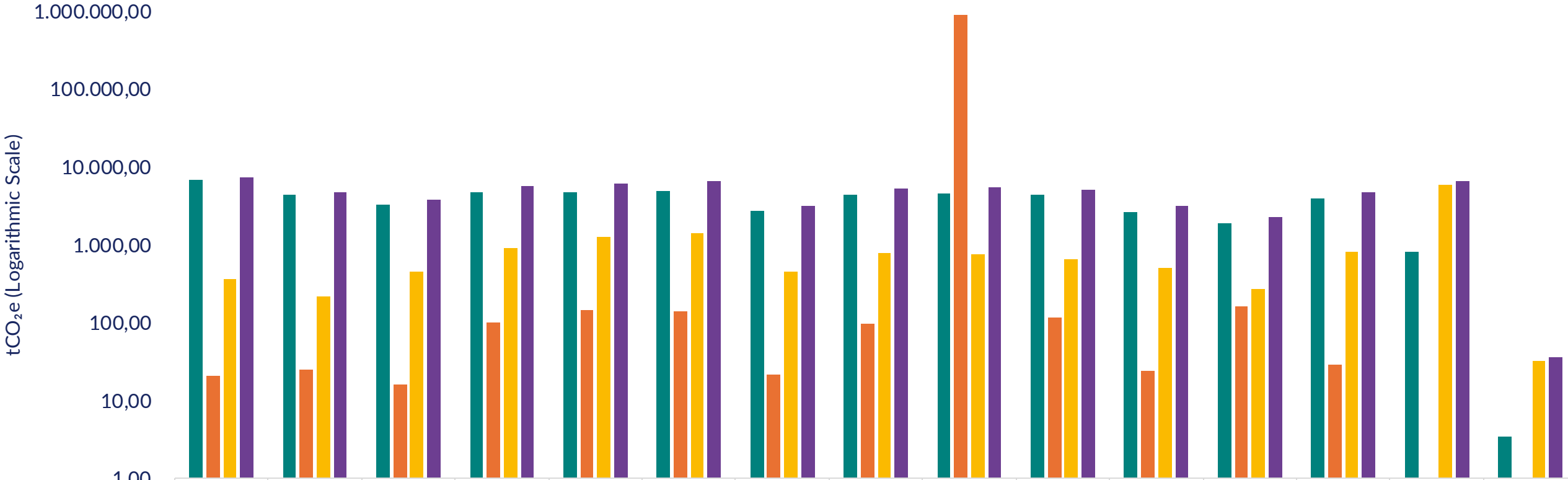
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	3,38	10%	810,22	12%	806,84	100%
Stationary Combustion	0,58	2%	763,69	12%	763,11	100%
Mobile Combustion	2,72	8%	46,17	1%	43,45	94%
Fugitive Emissions	0,09	0%	0,36	0%	0,27	76%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	31,78	90%	5.811,73	88%	(5.779,95)	-99%
Purchased Goods and Services	2,44	7%	5.500,77	83%	(5.498,33)	-100%
Capital Goods	12,35	35%	144,36	2%	(132,01)	-91%
Business travel	7,06	20%	29,14	0%	(22,08)	-76%
Waste	1,44	4%	1,37	0%	(0,07)	-5%
Commuting	3,26	9%	26,93	0%	(23,67)	-88%
Transportation and distribution (upstream)	-	0%	66,85	1%	(66,85)	-100%
Fuel- and energy-related activities	5,24	15%	42,31	1%	(37,07)	-88%
Total	35,16	100%	6.621,95	100%	(6.576,06)	99%

Emissions from the UCLA Plant decreased by 99% in 2024 compared to 2023. This reduction is associated with lower emissions from Purchased Goods and Services (-100%) and Stationary Combustion (-100%).

Results / Renewable / RSBM / UCLA - Unidade de Cogeração Lages

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	6.874,8	4.378,2	3.296,3	4.717,5	4.750,2	4.934,8	2.686,0	4.415,0	4.572,3	4.293,3	2.594,8	1.865,2	3.932,3	810,22	3,38
Scope 2	20,45	24,76	15,55	99,93	144,11	137,15	21,31	95,61	879.453	115,98	23,81	158,1	29,02	-	-
Scope 3	355,12	214,07	444,97	915,02	1.240,0	1.386,5	448,8	785,1	757,49	648,05	498,99	268,61	801,36	5.811,7	31,78
Total Emissions	7.250,4	4.617,0	3.756,8	5.732,4	6.134,4	6.458,5	3.156,1	5.295,7	5.417,7	5.057,4	3.117,6	2.291,9	4.762,7	6.621,9	35,16

Results / Renewable / RSBM / UCLA - Unidade de Cogeração Lages

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	0,53	11%	40.281,30	100%	(40.280,77)	-100%
Stationary Combustion	0,08	2%	40.275,66	100%	(40.275,58)	-100%
Mobile Combustion	0,46	9%	5,64	0%	(5,18)	-92%
Scope 3	4,41	89%	17,86	0%	(13,45)	-75%
Business travel	3,86	78%	5,89	0%	(2,03)	-34%
Commuting	0,55	11%	4,64	0%	(4,09)	-88%
Transportation and distribution (upstream)	-	0%	7,33	0%	(7,33)	-100%
Total	4,94	100%	40.299,16	100%	(40.294,22)	-100%

A 100% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Stationary Combustion (-100%).

Unit without representativeness in the carbon stock and avoided emission generation of renewable energy.

RERU – URUGUAI RIVER REGIONAL

UHIT - Hydroelectric Plant Itá



UHMA - Hydroelectric Plant Machadinho

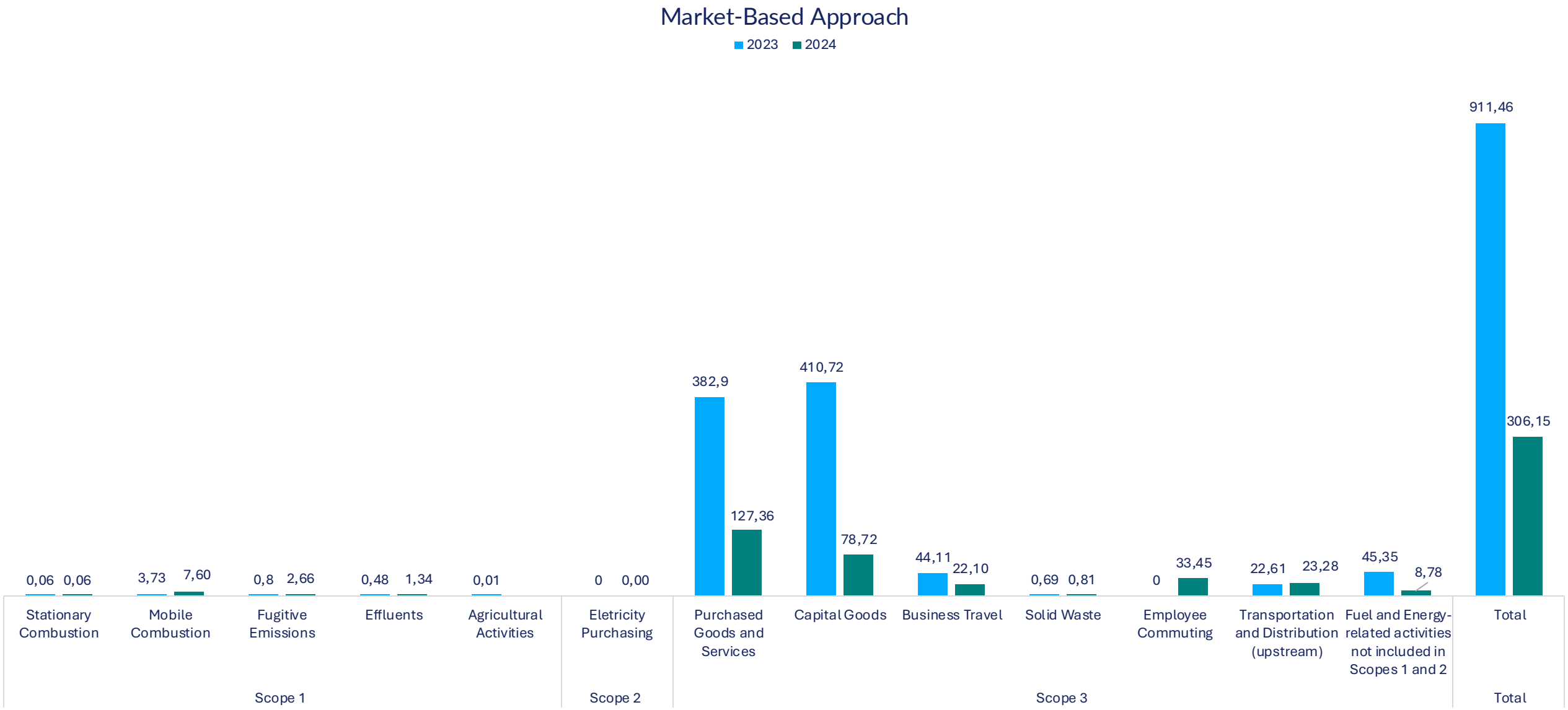


UHPF - Hydroelectric Plant Passo Fundo



Results / Renewable / RERU / UHIT – Hydroelectric Plant Itá

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RERU / UHIT – Hydroelectric Plant Itá

Emissions per Source (tCO_2e) 2024 x 2023 per Equity Share

Market-Based Approach

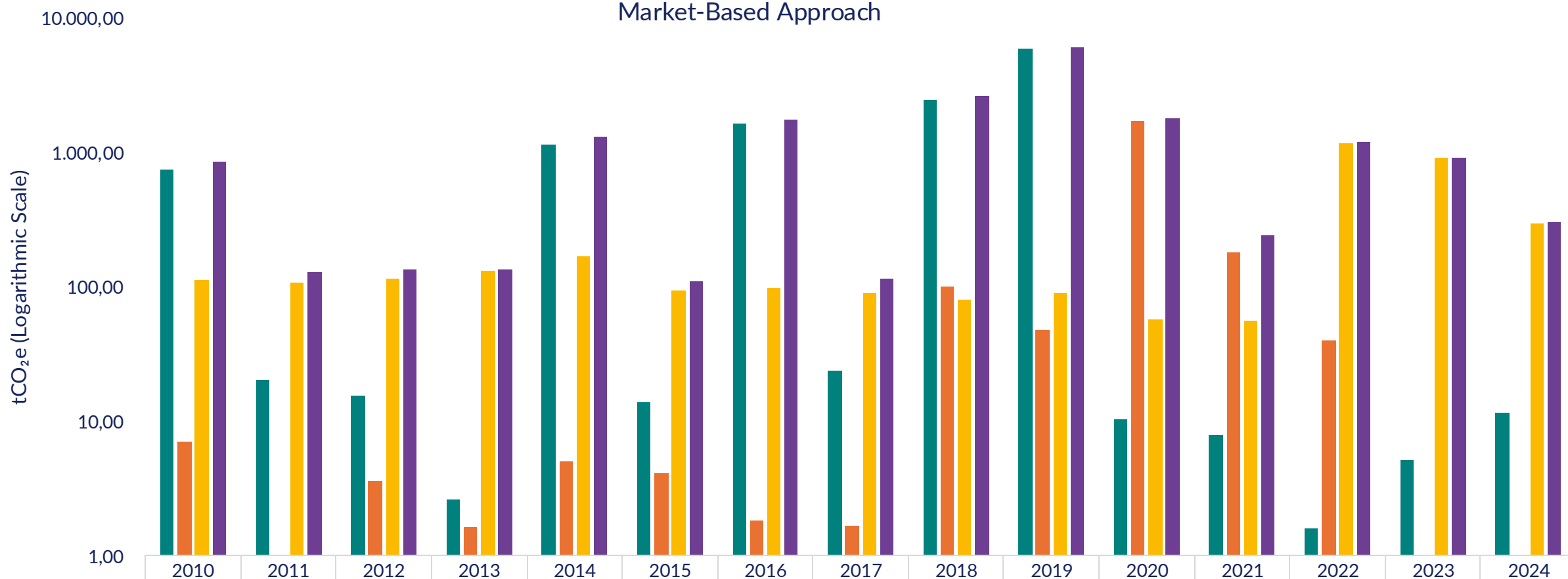
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	11,66	4%	5,08	1%	16,54	517%
Stationary Combustion	0,06	0%	0,06	0%	0,00	1%
Mobile Combustion	7,60	2%	3,73	0%	3,87	195%
Fugitive Emissions	2,66	1%	0,8	0%	1,86	233%
Wastewater Treatment	1,34	0%	0,48	0%	0,86	305%
Agricultural Activity	-	0%	0,01	0%	(0,01)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	294,49	93%	906,38	99%	(611,89)	-68%
Purchased Goods and Services	127,36	40%	382,9	42%	(255,54)	-67%
Capital Goods	78,72	25%	410,72	45%	(332,00)	-81%
Business travel	22,10	7%	44,11	5%	(22,01)	-50%
Waste	0,81	0%	0,69	0%	0,12	18%
Commuting	33,45	11%	-	0%	33,45	
Transportation and distribution (upstream)	23,28	7%	22,61	2%	0,67	-3%
Fuel- and energy-related activities	8,78	3%	45,35	5%	(36,57)	-81%
Total	306,15	100%	911,46	100%	(605,31)	-66%

Emissions from UHIT decreased by 65% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-67%) and Capital Goods (-81%).

Results / Renewable / RERU / UHIT – Hydroelectric Plant Itá

Emissions Evolutions (tCO_2e) per Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	737,66	20,44	15,50	2,62	1.137,8	13,94	1.636,3	23,82	2.455,0	5.914,5	10,22	7,85	1,60	5,09	11,66
Scope 2	7,10	0,33	3,56	1,62	5,00	4,07	1,82	1,67	101,36	47,57	1.725,2	179,69	40,13	-	-
Scope 3	113,11	106,56	116,12	130,18	169,09	92,95	98,43	89,19	81,06	89,38	57,75	55,66	1.165,4	906,39	294,49
Total Emissions	857,87	127,33	135,18	134,42	1.311,9	110,96	1.736,6	114,68	2.637,4	6.051,5	1.793,1	243,20	1.207,1	911,48	306,15

Results / Renewable / RERU / UHIT – Hydroelectric Plant Itá

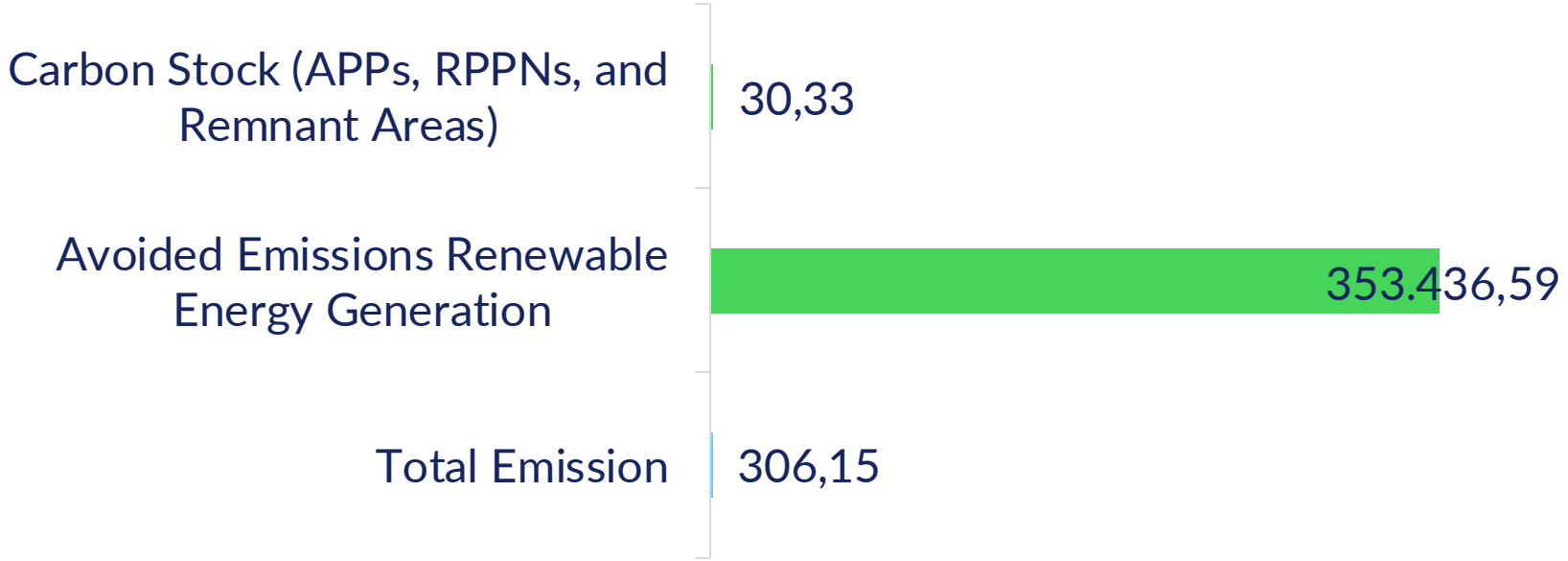
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	12,94	49%	12,94	62%	0,00	0%
Stationary Combustion	0,01	0%	0,01	0%	0,00	31%
Mobile Combustion	12,93	49%	12,93	62%	0,00	0%
Scope 3	13,20	51%	8,03	38%	5,17	64%
Business travel	3,09	12%	8,03	38%	(4,94)	-62%
Commuting	4,86	19%	-	0%	4,86	
Transportation and distribution (upstream)	5,25	20%	4,84	23%	0,41	8%
Total	26,15	100%	20,97	100%	5,18	25%

A 25% increased in biogenic emissions in 2024 compared to 2023, primarily due to a higher in fuel consumption for employee commuting.

Results / Renewable / RERU / UHIT – Hydroelectric Plant Itá

Balance of Emissions (tCO_2e)



Results / Renewable / RERU / UHMA – Hydroelectric Plant Machadinho

Emissions Comparison 2024 x 2023 (tCO_2e) per Equity Share



Results / Renewable / RERU / UHMA – Hydroelectric Plant Machadinho

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

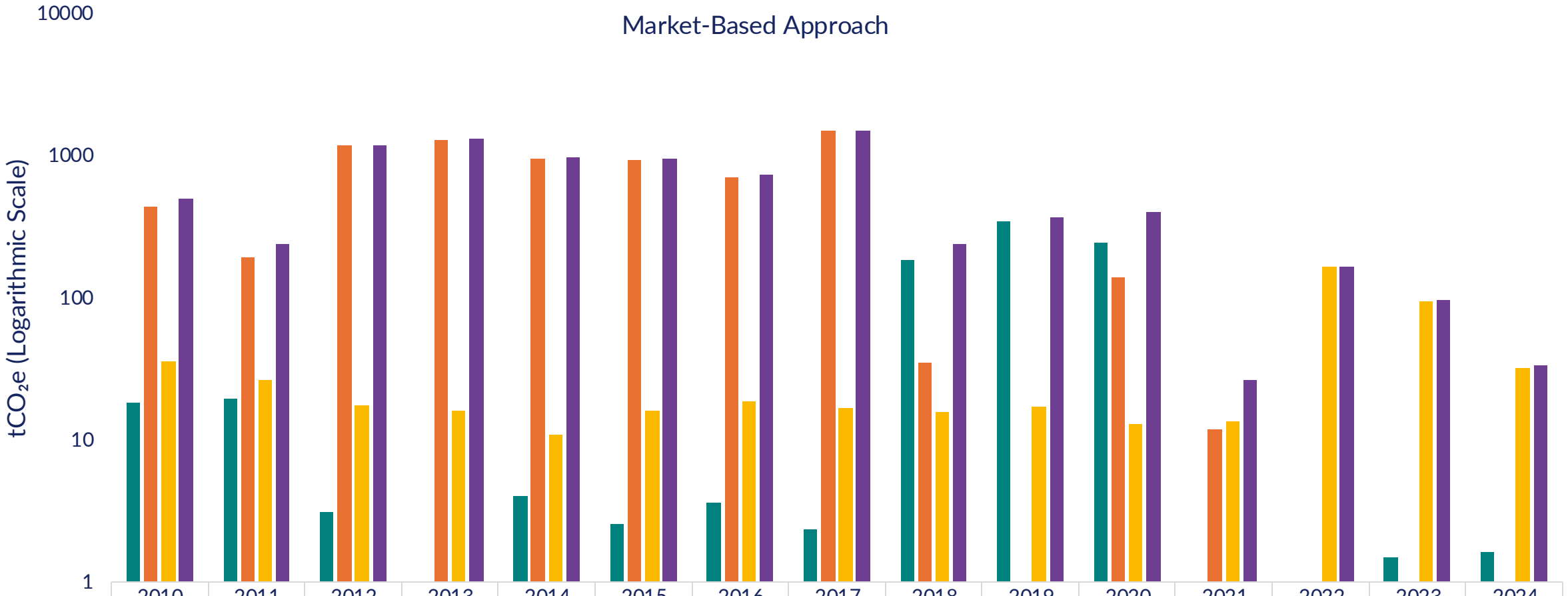
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	1,60	5%	1,49	2%	0,11	7%
Stationary Combustion	0,57	2%	0,5	1%	0,07	15%
Mobile Combustion	0,93	3%	0,93	1%	0,00	0%
Fugitive Emissions	0,01	0%	0,01	0%	3,73	37323%
Wastewater Treatment	0,09	0%	0,05	0%	0,04	74%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	32,04	95%	95,15	98%	(63,11)	-66%
Purchased Goods and Services	20,58	61%	66,72	69%	(46,14)	-69%
Capital Goods	7,08	21%	14,09	15%	(7,01)	-50%
Business travel	0,63	2%	5,36	6%	(4,73)	-88%
Waste	0,13	0%	0,19	0%	(0,06)	-30%
Transportation and distribution (upstream)	1,79	5%	1,71	2%	0,08	5%
Fuel- and energy-related activities	1,83	5%	7,08	7%	(5,25)	-74%
Total	37,38	100%	96,64	100%	(59,26)	-61%

Emissions from the UHMA unit decreased by 61% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-69%).

Results / Renewable / RERU / UHMA – Hydroelectric Plant Machadinho

Emissions Evolutions (tCO_2e) per Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	18,15	19,33	3,08	0,98	4,01	2,56	3,6	2,33	186,26	348,47	244,99	0,86	0,76	1,48	1,60
Scope 2	442,58	191,23	1175,85	1302,76	957,13	931,91	707,17	1490,25	35,11	0,3	140,41	11,88	-	-	-
Scope 3	35,97	26,5	17,31	15,88	10,75	16,12	18,71	16,83	15,81	17,22	12,98	13,6	165,5	95,15	32,04
Total Emissions	496,7	237,06	1196,24	1319,62	971,89	950,59	729,48	1509,41	237,18	365,99	398,38	26,34	166,26	96,63	33,65

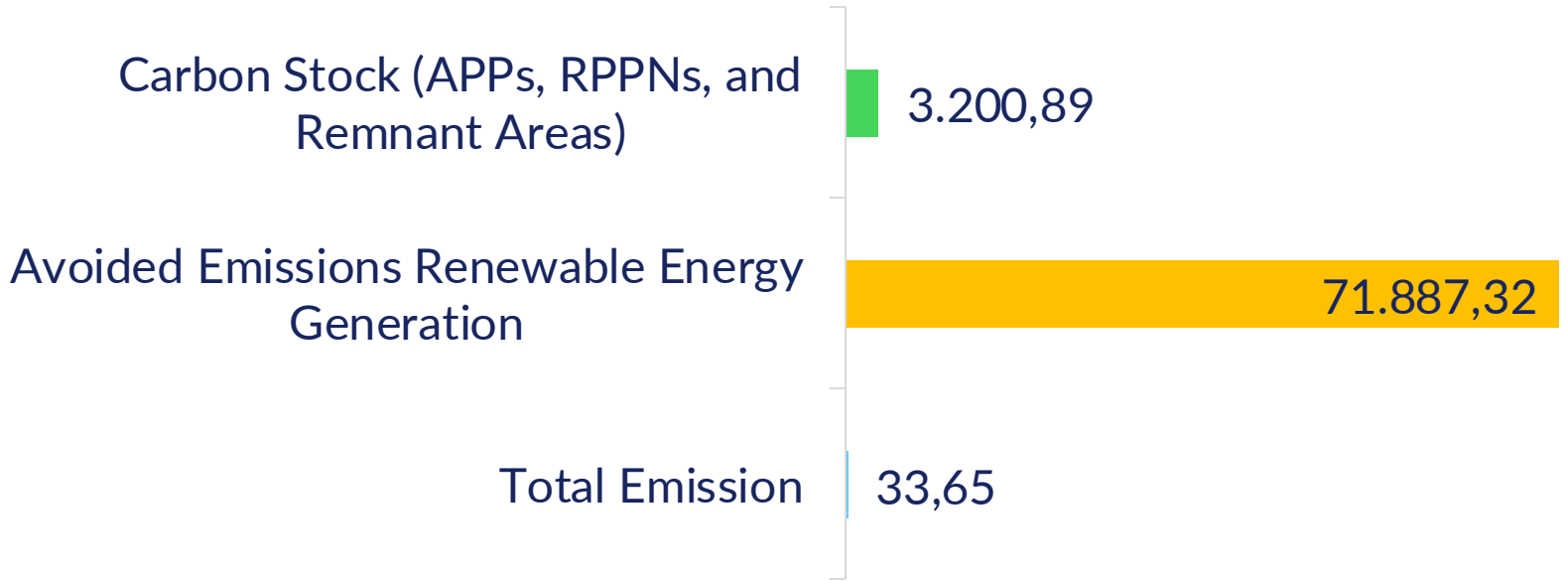
Results / Renewable / RERU / UHMA – Hydroelectric Plant Machadinho

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	2,93	88%	2,58	64%	0,35	14%
Stationary Combustion	0,08	2%	0,06	1%	0,02	35%
Mobile Combustion	2,85	86%	2,52	62%	0,33	13%
Scope 3	0,39	12%	1,46	36%	(1,07)	-73%
Business travel	0,09	3%	1,18	29%	(1,09)	-92%
Transportation and distribution (upstream)	0,30	9%	0,28	7%	0,02	7%
Total	3,32	100%	4,04	100%	(0,72)	-18%

> An 18% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-92%).

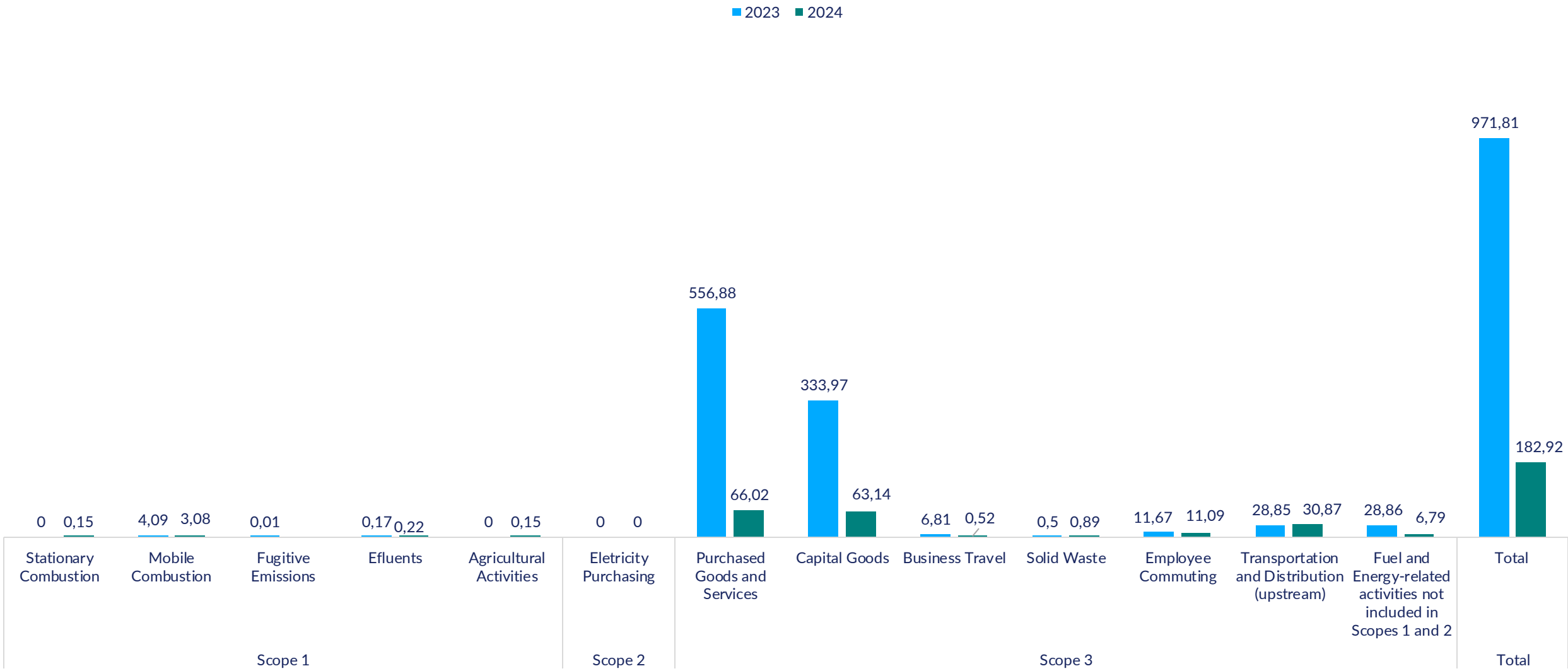
Results / Renewable / RERU / UHMA – Hydroelectric Plant Machadinho



Results / Renewable / RERU / UHPF - Hydroelectric Plant Passo Fundo

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / RERU / UHPF - Hydroelectric Plant Passo Fundo

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

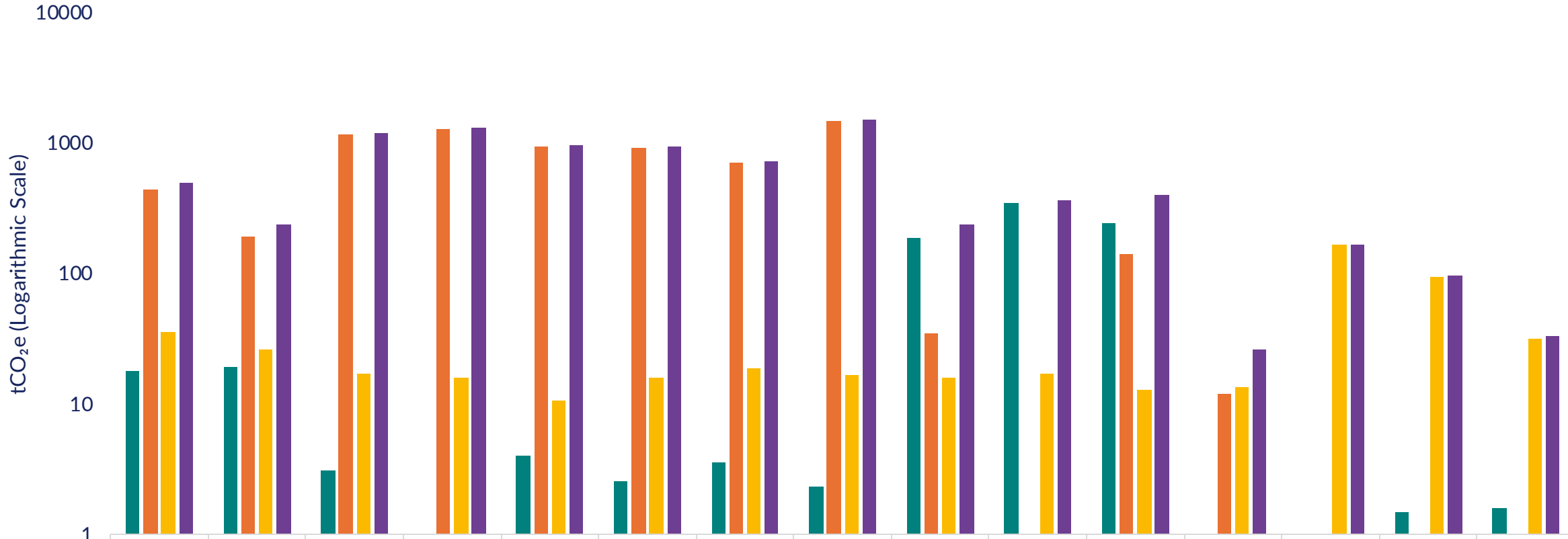
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	3,59	2%	4,27	0%	(0,68)	-16%
Stationary Combustion	0,15	0%	-	0%	0,15	100%
Mobile Combustion	3,08	2%	4,09	0%	(1,01)	-25%
Fugitive Emissions		0%	0,01	0%	(0,01)	-100%
Wastewater Treatment	0,22	0%	0,17	0%	0,05	29%
Agricultural Activity	0,15	0%	-	0%	0,14	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	179,33	98%	967,54	100%	(788,21)	-81%
Purchased Goods and Services	66,02	36%	556,88	57%	(490,86)	-88%
Capital Goods	63,14	35%	333,97	34%	(270,83)	-81%
Business travel	0,52	0%	6,81	1%	(6,29)	-92%
Waste	0,89	0%	0,50	0%	0,39	77%
Commuting	11,09	6%	11,67	1%	(0,58)	-5%
Transportation and distribution (upstream)	30,87	17%	28,85	3%	2,02	7%
Fuel- and energy-related activities	6,79	4%	28,86	3%	(22,07)	-76%
Total	182,92	100%	971,81	100%	(782,56)	-81%

Emissions from the UHPF unit decreased by 81% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-88%) and Capital Goods (-81%).

Results / Renewable / RERU / UHPF - Hydroelectric Plant Passo Fundo

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	18,15	19,33	3,08	0,98	4,01	2,56	3,6	2,33	186,26	348,47	244,99	0,86	0,76	1,48	1,60
Scope 2	442,58	191,23	1175,85	1302,76	957,13	931,91	707,17	1490,25	35,11	0,3	140,41	11,88	-	-	-
Scope 3	35,97	26,5	17,31	15,88	10,75	16,12	18,71	16,83	15,81	17,22	12,98	13,6	165,5	95,15	32,04
Total Emissions	496,7	237,06	1196,24	1319,62	971,89	950,59	729,48	1509,41	237,18	365,99	398,38	26,34	166,26	96,63	33,65

Results / Renewable / RERU / UHPF - Hydroelectric Plant Passo Fundo

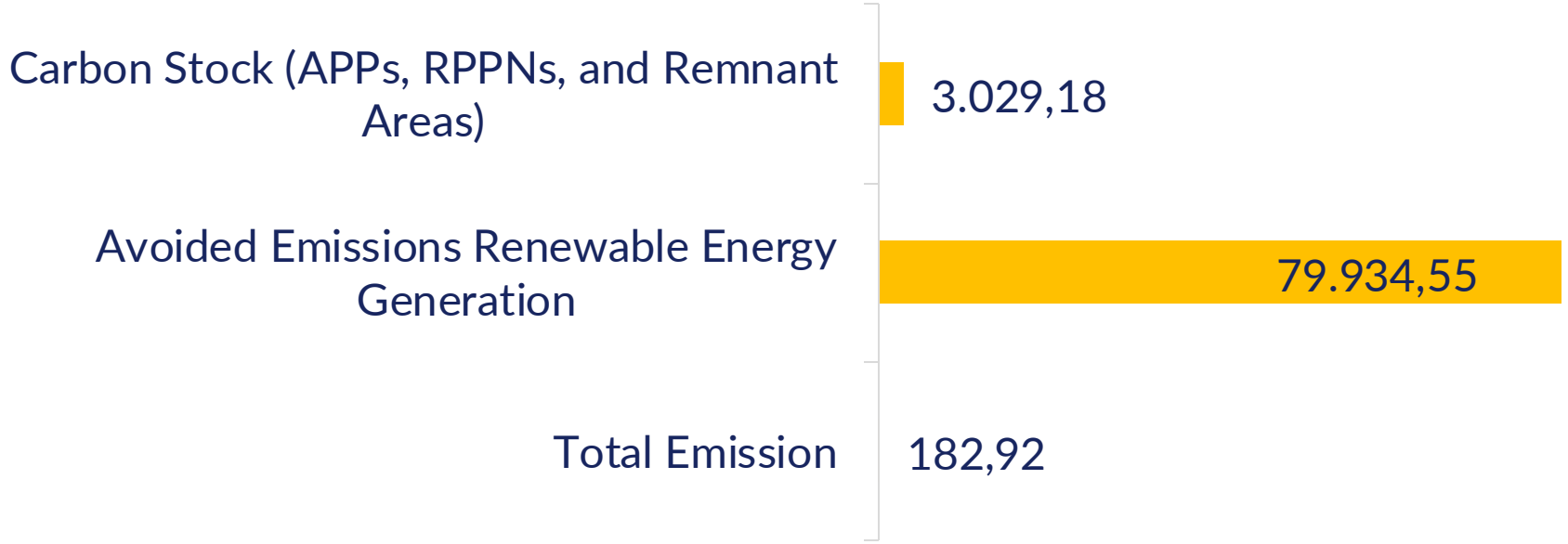
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	8,92	53%	11,24	57%	(2,32)	-21%
Stationary Combustion	0,03	0%	-	0%	0,03	100%
Mobile Combustion	8,90	53%	11,24	57%	(2,34)	-21%
Scope 3	7,90	47%	8,50	43%	(0,60)	-7%
Business travel	0,03	0%	1,54	8%	(1,51)	-98%
Commuting	1,61	10%	1,40	7%	0,21	15%
Transportation and distribution (upstream)	6,26	37%	5,56	28%	0,70	13%
Total	16,82	100%	19,74	100%	(2,92)	-15%

A 15% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Mobile Combustion (-21%).

Results / Renewable / RERU / UHPF - Hydroelectric Plant Passo Fundo

Balance of Emissions (tCO_2e)



RERI – IGUAÇU RIVER REGIONAL

UHSO - Hydroelectric Plant Salto Osório



UHSS - Hydroelectric Plant Salto Santiago



Results / Renewable / RERI / UHSO – Hydroelectric Plant Salto Osório

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RERI / UHSO – Hydroelectric Plant Salto Osório

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

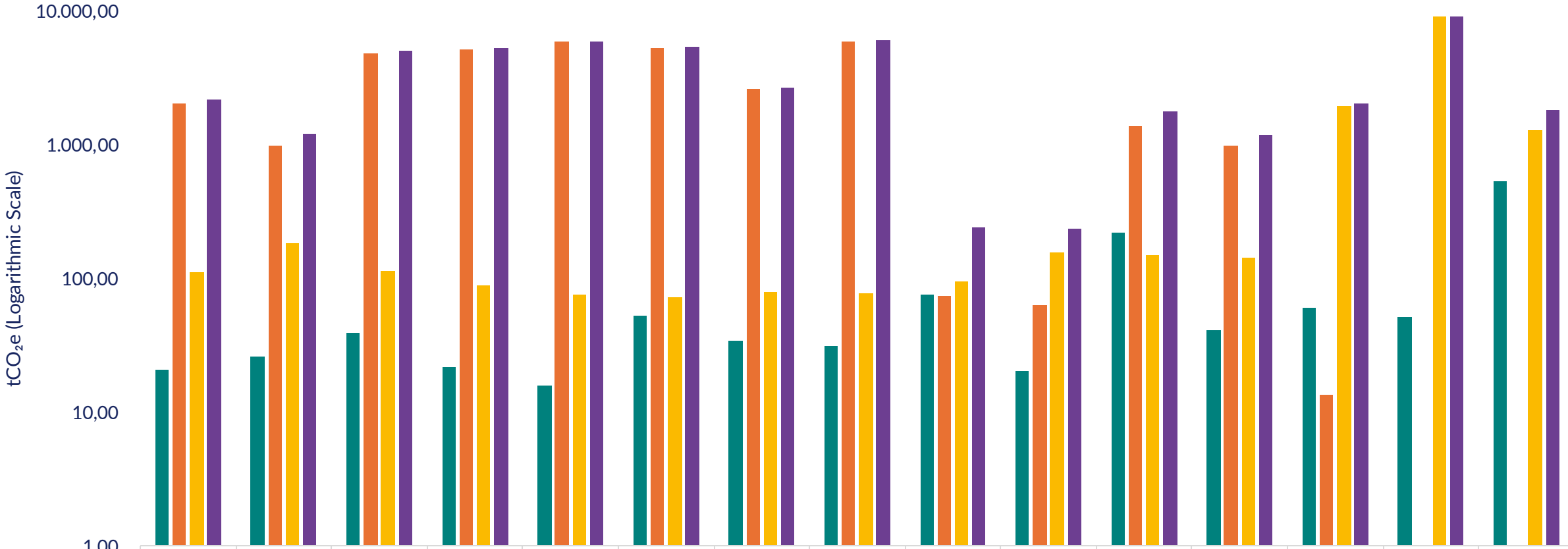
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	525,56	31%	50,70	1%	508,30	1003%
Stationary Combustion	410,33	23%	0,42	0%	409,91	97598%
Mobile Combustion	15,18	1%	13,04	0%	2,14	16%
Fugitive Emissions	95,50	7%	32,48	0%	63,02	194%
Wastewater Treatment	4,41	0%	3,42	0%	0,99	29%
Agriculture Activities	0,14	0%	1,34	0%	(1,20)	89%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	1.274,12	69%	8.991,99	99%	(7.738,21)	-86%
Purchased Goods and Services	500,45	26%	7.958,70	88%	(7.458,25)	-94%
Capital Goods	607,30	33%	743,62	8%	(136,32)	-18%
Business travel	17,38	1%	73,39	1%	56,01	76%
Waste	0,31	0%	0,54	0%	0,23	43%
Commuting	30,80	2%	33,45	0%	2,65	8%
Transportation and distribution (upstream)	99,70	5%	99,00	1%	0,70	1%
Fuel- and energy-related activities	18,18	1%	83,29	1%	(65,11)	-78%
Total	1.799,68	100%	9.042,69	100%	(7.226,91)	-80%

Emissions from the UHSO unit decreased by 80% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-94%) and Capital Goods (-18%).

Results / Renewable / RERI / UHSO – Hydroelectric Plant Salto Osório

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	20,34	25,79	38,90	21,41	15,68	52,14	33,65	30,75	74,51	20,00	216,69	41,11	59,59	50,69	525,56
Scope 2	2.010,3	985,06	4.841,4	5.103,8	5.837,9	5.298,1	2.565,1	5.852,3	72,62	61,99	1.381,6	988,00	13,36	-	-
Scope 3	111,44	180,16	112,94	88,65	75,02	71,24	77,99	77,19	93,19	153,58	148,58	140,69	1.952,5	8.992,0	1.274,1
Total Emissions	2.142,1	1.191,0	4.993,3	5.213,8	5.928,6	5.421,5	2.676,8	5.960,2	240,32	235,57	1.746,8	1.169,8	2.025,4	9.042,6	1.799,6

Results / Renewable / RERI / UHSO – Hydroelectric Plant Salto Osório

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	27,84	48%	29,96	43%	(2,12)	-7%
Stationary Combustion	0	0%	0,05	0%	(0,05)	-100%
Mobile Combustion	27,84	48%	29,91	43%	(2,070)	-7%
Scope 3	30,26	52%	39,89	57%	(9,63)	-24%
Business travel	4,21	7%	17,08	24%	(12,87)	-75%
Transportation and distribution (upstream)	19,6	34%	17,77	25%	1,83	10%
Purchased Goods and Services	1,17	2%	0,01	0%	1,16	11573%
Commuting	5,28	9%	5,03	7%	0,25	5%
Total	58,1	100%	69,85	100%	(11,75)	-17%

A 17% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-75%).

Results / Renewable / RERI / UHSO – Hydroelectric Plant Salto Osório

Balance of Emissions (tCO_2e)

Carbon Stock (APPs, RPPNs, and Remnant Areas)	3,87
Avoided Emissions Renewable Energy Generation	315.625,49
Total Emission	1.799,68

Results / Renewable / RERI / UHSS – Hydroelectric Plant Salto Santiago

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RERI / UHSS – Hydroelectric Plant Salto Santiago

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

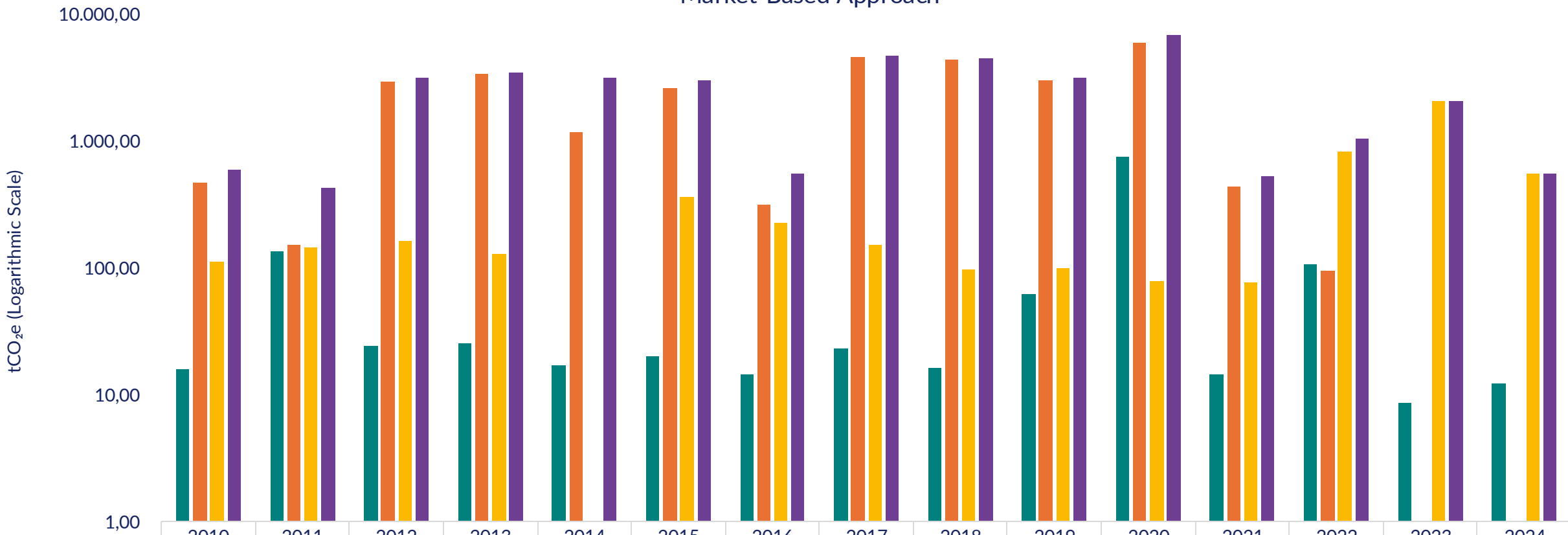
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	12,19	2%	8,53	0%	3,66	43%
Stationary Combustion	1,8	0%	0,7	0%	1,1	157%
Mobile Combustion	7,21	1%	6,34	0%	0,87	14%
Wastewater Treatment	0,44	0%	0,34	0%	0,1	29%
Agricultural Activity	2,75	0%	1,15	0%	1,6	139%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	547,08	98%	2.077,42	100%	(1.530,34)	-74%
Purchased Goods and Services	175,6	31%	1,001,05	48%	(825,45)	-82%
Capital Goods	266,41	48%	885,09	42%	(618,68)	-70%
Business travel	25,28	5%	53,66	3%	(28,38)	-53%
Waste	1,49	0%	0,66	0%	0,83	126%
Commuting	17,71	3%	34,22	2%	(16,51)	-48%
Transportation and distribution (upstream)	30,03	5%	28,51	1%	1,52	5%
Fuel- and energy-related activities	30,56	5%	74,23	4%	(43,67)	-59%
Total	559,27	100%	2,086	100%	(1.489,51)	-73%

Emissions from the unit decreased by 71% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-82%) and Capital Goods (-70%).

Results / Renewable / RERI / UHSS – Hydroelectric Plant Salto Santiago

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	15,78	135,11	24,09	25,58	16,94	19,91	14,59	23,26	16,08	62,02	753,76	14,58	106,27	8,53	12,19
Scope 2	469,07	151,99	2.938,7	3.352,1	1.182,4	2.603,5	311,21	4.571,2	4.367,3	3.022,8	5.974,5	439,47	95,65	-	
Scope 3	111,20	145,24	163,23	128,78	-	360,48	224,51	151,52	95,99	99,05	78,87	76,75	831,09	2.077,4	547,08
Total Emissions	596,05	432,34	3.126,1	3.506,5	3.172,7	2.983,8	550,31	4.745,9	4.479,4	3.183,8	6.807,2	530,80	1.033,0	2.085,9	559,27

Results / Renewable / RERI / UHSS – Hydroelectric Plant Salto Santiago

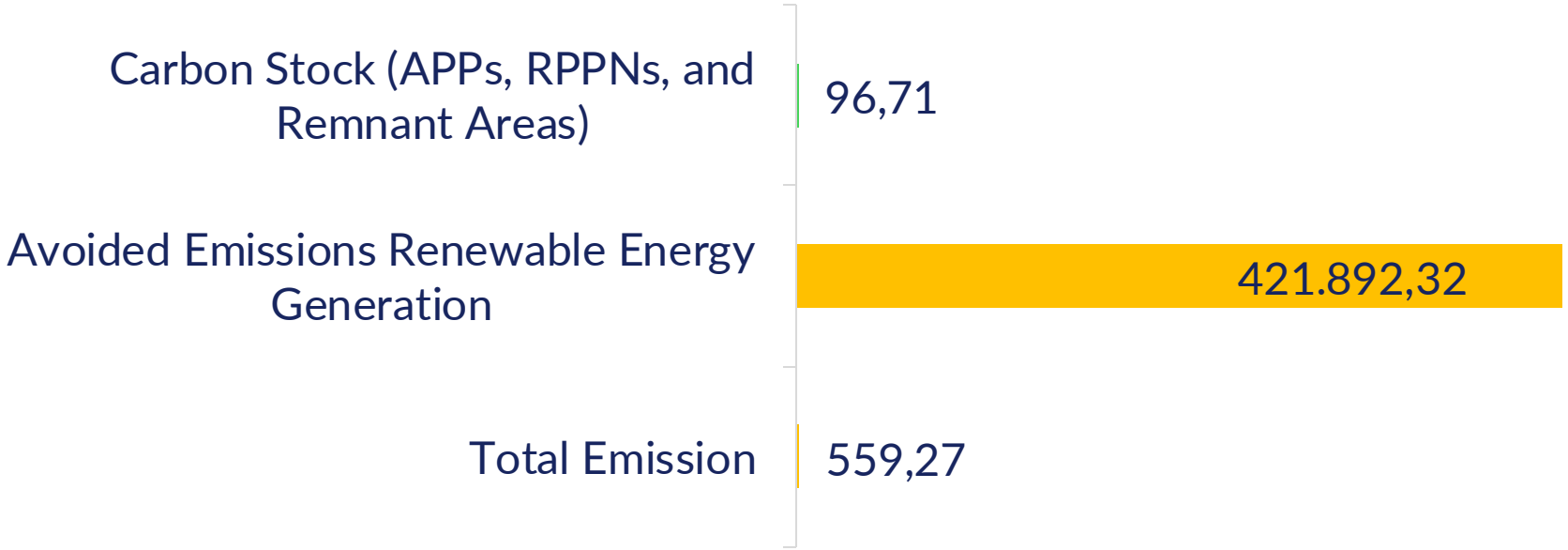
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	31,57	74%	24,74	53%	6,83	28%
Stationary Combustion	0,27	1%	0,13	0%	0,14	108%
Mobile Combustion	31,3	74%	24,61	53%	6,69	27%
Scope 3	10,98	26%	21,86	47%	(10,88)	-50%
Business travel	1,93	5%	11,58	25%	(9,65)	-83%
Purchased Goods and Services	0,70	2%	0,88	2%	(0,18)	-20%
Commuting	2,53	6%	4,15	9%	(1,62)	-39%
Transportation and distribution (upstream)	5,81	14%	5,25	11%	0,56	11%
Total	42,55	100%	46,60	100%	(4,05)	-9%

A 17% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-83%).

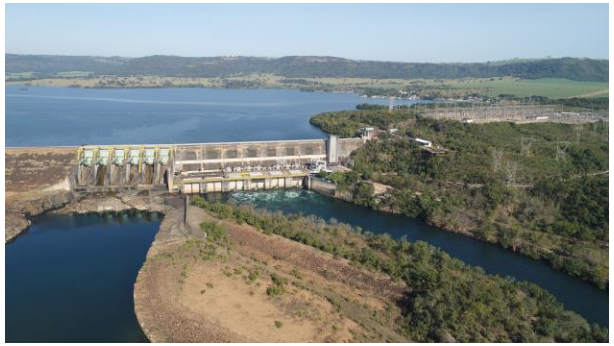
Results / Renewable / RERI / UHSS – Hydroelectric Plant Salto Santiago

Balance of Emissions (tCO_2e)



REMG – MINAS GERAIS REGIONAL

UHJA - Hydroelectric Plant Jaguara



UHMI - Hydroelectric Plant Miranda



UHPP - Hydroelectric Plant Ponte de Pedra



PHRO - Hidroelétric Plant Rondonópolis



PHJG - Hidroelétric Plant José Gelázio da Rocha



Results / Renewable / REMG / UHJA – Hydroelectric Plant Jaguara

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / REMG / UHJA – Hydroelectric Plant Jaguara

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

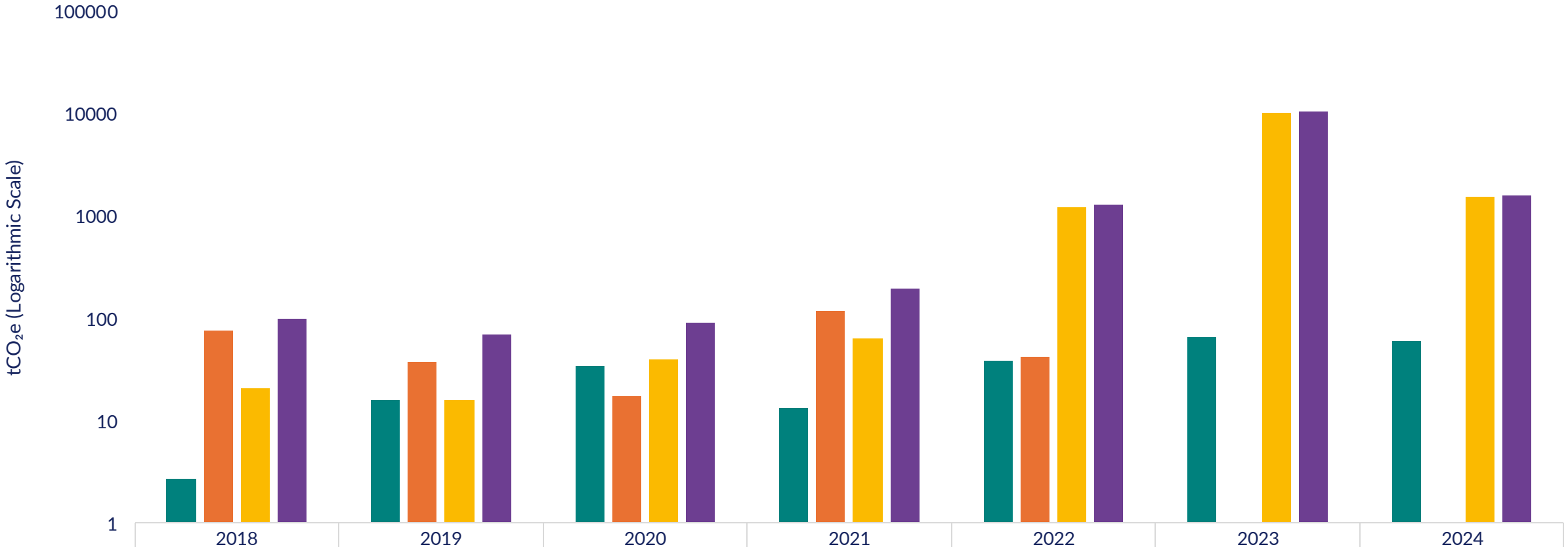
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	59,66	4%	66,28	1%	(6,62)	-10%
Stationary Combustion	2,54	0%	3,57	0%	(1,03)	-29%
Mobile Combustion	2,41	0%	3,13	0%	(0,72)	-23%
Fugitive Emissions	52,67	3%	58,67	1%	(6,00)	-10%
Wastewater Treatment	2,04	0%	0,91	0%	1,13	124%
Scope 2	-	-	-	-	-	-
Electricity Purchase	-	-	-	-	-	-
Scope 3	1.526,27	96%	10.342,01	99%	(8.815,74)	-85%
Purchased Goods and Services	207,24	13%	8.346,63	80%	(8.139,39)	-98%
Capital Goods	1.265,15	80%	1.877,94	18%	(612,79)	-33%
Business travel	22,48	1%	47,82	0%	(25,34)	-53%
Waste	1,27	0%	1,63	0%	(0,36)	-22%
Transportation and distribution (upstream)	15,52	1%	10,44	0%	5,08	49%
Fuel- and energy-related activities	14,61	1%	57,55	1%	(42,94)	-75%
Total	1.585,93	100%	10.408,29	100%	(8.822,36)	-85%

Emissions from the UHJA unit decreased by 85% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-98%) and Capital Goods (-33%).

Results / Renewable / REMG / UHJA – Hydroelectric Plant Jaguara

Emissions Evolutions (tCO_2e) por Operational Control e Equity Share

Market-Based Approach



	2018	2019	2020	2021	2022	2023	2024
Scope 1	2,7	15,86	33,9	13,37	39,25	66,28	59,66
Scope 2	75,75	38,03	17,51	120,29	42,09	-	-
Scope 3	20,78	15,85	39,3	63,95	1230,81	10342,02	1526,27
Total Emissions	99,23	69,74	90,71	197,61	1312,15	10408,3	1585,93

Results / Renewable / REMG / UHJA – Hydroelectric Plant Jaguara

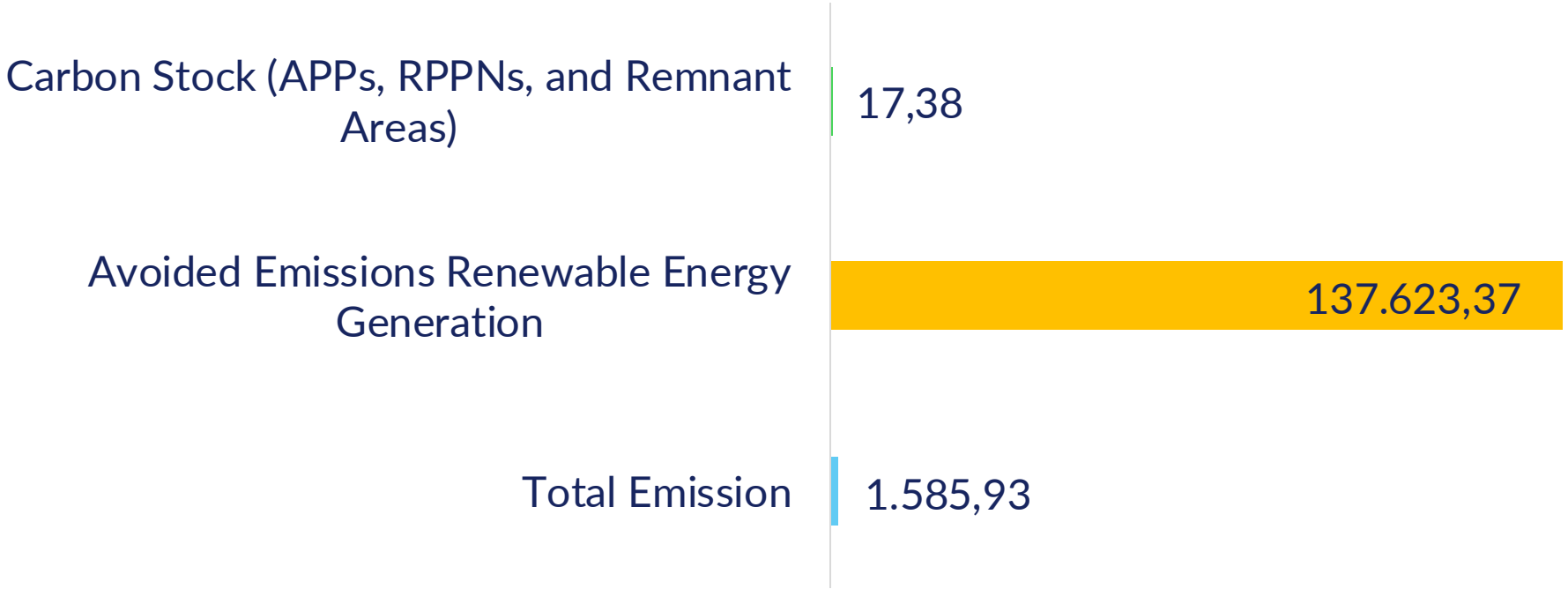
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	14,41	36%	17,13	38%	(2,72)	-16%
Stationary Combustion	0,48	1%	0,56	1%	(0,08)	-14%
Mobile Combustion	13,94	35%	16,57	36%	(2,63)	-16%
Scope 3	25,93	64%	28,31	62%	(2,38)	-8%
Business travel	1,08	3%	8,53	19%	(7,45)	-87%
Transportation and distribution (upstream)	24,85	62%	19,78	44%	5,07	26%
Total	40,34	100%	45,44	100%	(5,10)	-11%

An 11% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-87%).

Results / Renewable / REMG / UHJA – Hydroelectric Plant Jaguara

Balance of Emissions (tCO_2e)



Results / Renewable / REMG / UHMI – Hydroelectric Plant Miranda

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / REMG / UHMI – Hydroelectric Plant Miranda

Emissions per Source (tCO_2e) 2024 x 2023

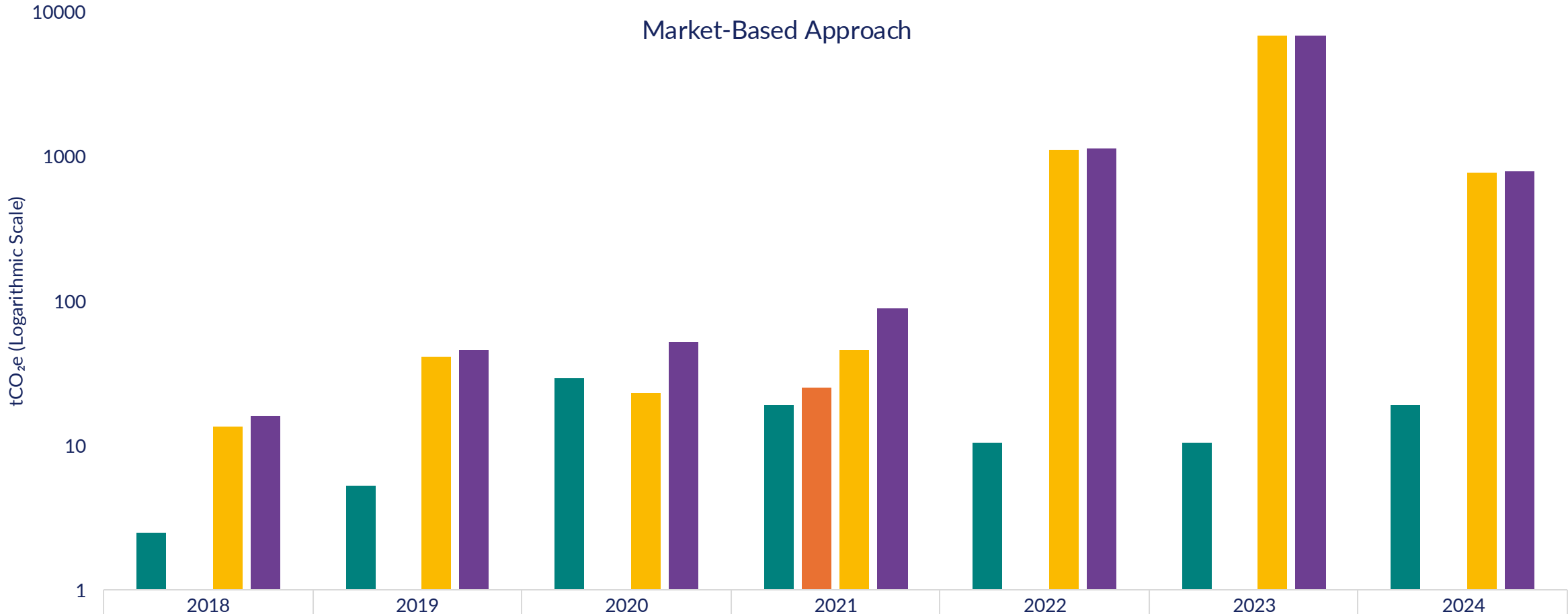
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	19,1	2%	10,4	0%	8,7	84%
Stationary Combustion	3,69	0%	3,1	0%	0,59	19%
Mobile Combustion	5,18	1%	5,26	0%	(0,08)	-2%
Fugitive Emissions	9,21	1%	2,01	0%	7,2	358%
Wastewater Treatment	0,95	0%	0,03	0%	0,92	3074%
Agricultural Activity	0,06	0%	-	0%	0,06	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	769,53	98%	6.774,12	100%	(6.004,59)	-89%
Purchased Goods and Services	104,65	13%	2.936,51	43%	(2.831,86)	-96%
Capital Goods	260,93	33%	1.755,37	26%	(1.494,44)	-85%
Business travel	10,26	1%	34,18	1%	(23,92)	-70%
Waste	333,81	42%	1.916,22	28%	(1.582,41)	-83%
Commuting	11,13	1%	14,61	0%	(3,48)	-24%
Transportation and distribution (upstream)	37,48	5%	48,48	1%	(11,00)	-23%
Fuel- and energy-related activities	11,27	1%	68,75	1%	(57,48)	-84%
Total	788,63	100%	6.784,52	100%	(5.993,08)	-88%

Emissions from the UHMI unit decreased by 88% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-96%), Capital Goods (-85%), and Waste (-83%).

Results / Renewable / REMG / UHMI – Hydroelectric Plant Miranda

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2018	2019	2020	2021	2022	2023	2024
Scope 1	2,5	5,28	28,97	19,14	10,37	10,39	19,1
Scope 2	0,06	0,03	0,01	24,96	0,17	-	-
Scope 3	13,41	40,75	22,93	45,38	1114,16	6774,11	769,53
Total Emissions	15,97	46,06	51,91	89,48	1124,7	6784,5	788,63

Results / Renewable / REMG / UHMI – Hydroelectric Plant Miranda

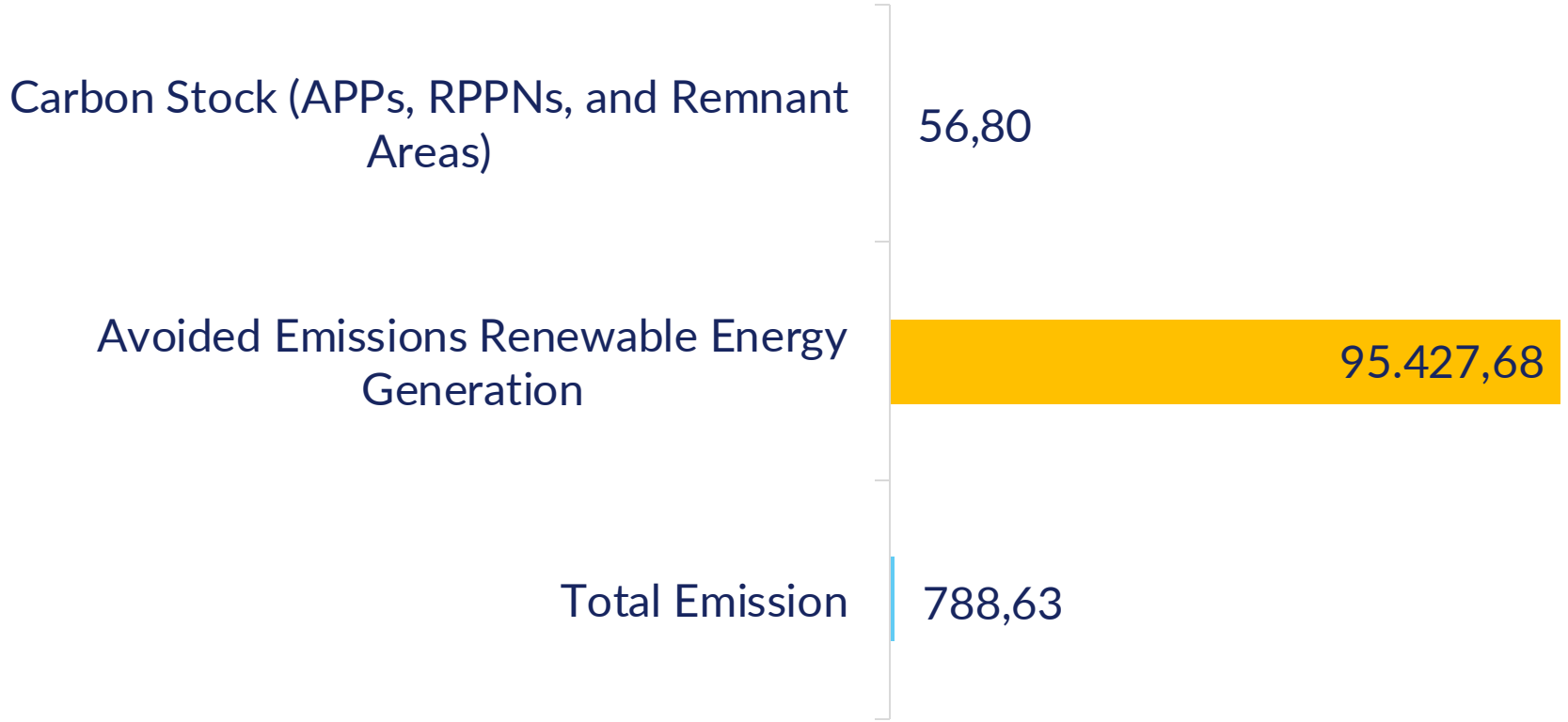
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	16,26	34%	19,87	34%	(3,61)	-18%
Stationary Combustion	0,80	2%	0,81	1%	(0,01)	-2%
Mobile Combustion	15,47	33%	19,06	32%	(3,59)	-19%
Scope 3	31,06	66%	38,84	66%	(7,78)	-20%
Business travel	1,21	3%	5,09	9%	(3,88)	-76%
Transportation and distribution (upstream)	28,24	60%	32,01	55%	(3,77)	-12%
Commuting	1,61	3%	1,74	3%	(0,13)	-8%
Total	47,32	100%	58,71	100%	(11,39)	-19%

A 19% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-76%).

Results / Renewable / REMG / UHMI – Hydroelectric Plant Miranda

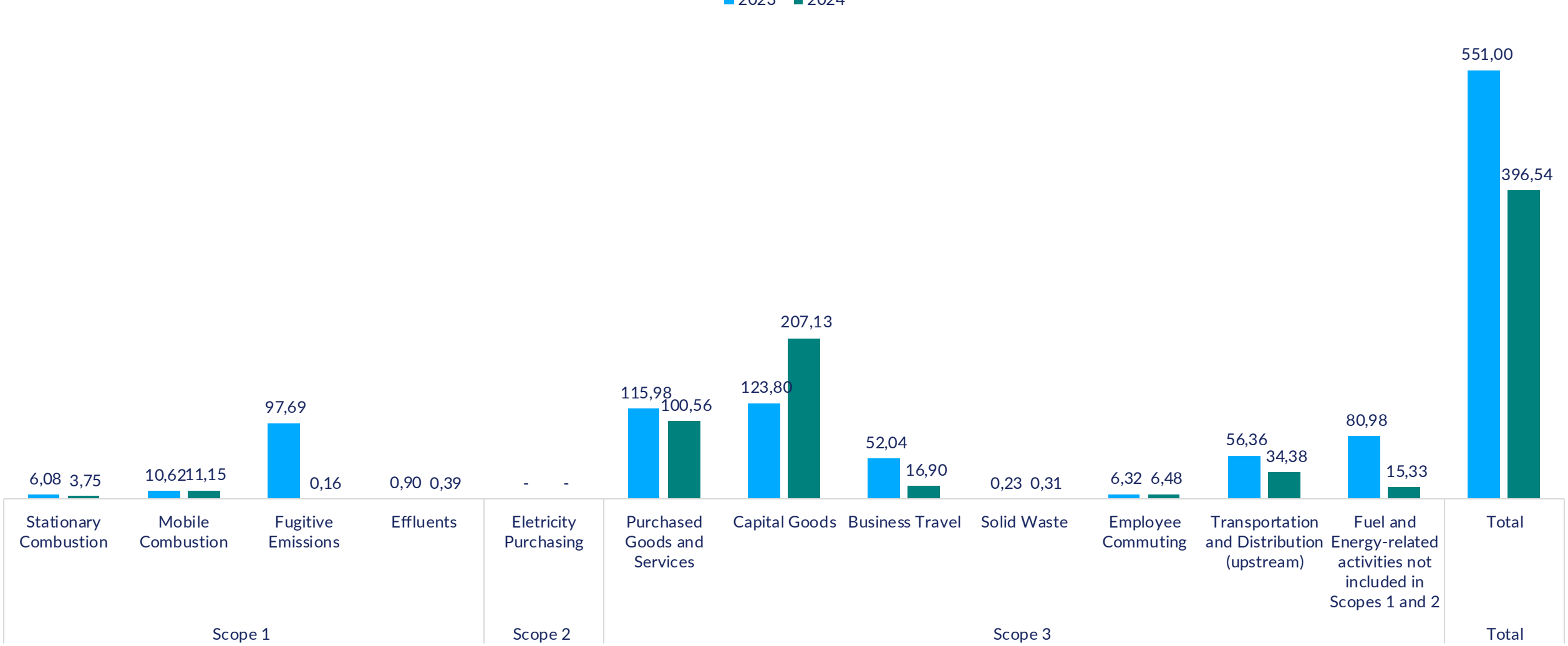
Balance of Emissions (tCO_2e)



Results / Renewable / REMG / UHPP – Hydroelectric Plant Ponte de Pedra

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable / REMG / UHPP – Hydroelectric Plant Ponte de Pedra

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

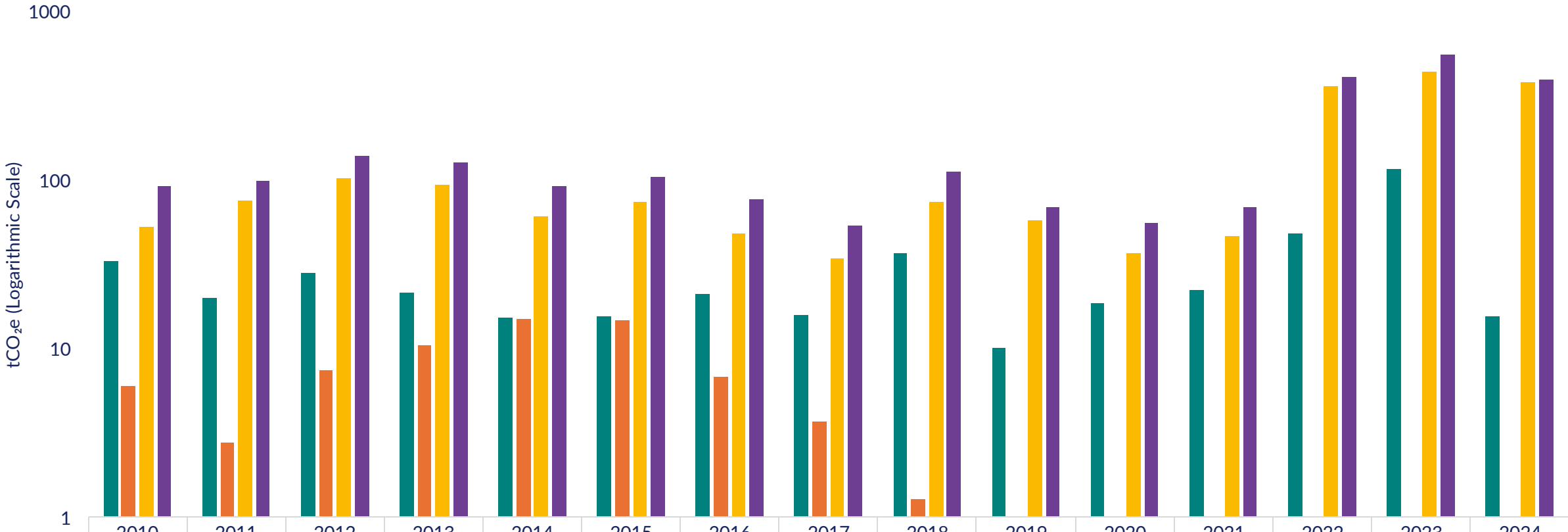
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	15,45	4%	115,29	21%	(95,76)	-83%
Stationary Combustion	3,75	1%	6,08	1%	(2,33)	-38%
Mobile Combustion	11,15	3%	10,62	2%	0,53	5%
Fugitive Emissions	0,16	0%	97,69	18%	(97,53)	-100%
Wastewater Treatment	0,39	0%	0,90	0%	(0,51)	-57%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	381,09	96%	435,71	79%	(54,62)	-13%
Purchased Goods and Services	100,56	25%	115,98	21%	(15,42)	-13%
Capital Goods	207,13	52%	123,80	22%	83,33	67%
Business travel	16,90	4%	52,04	9%	(35,14)	-68%
Waste	0,31	0%	0,23	0%	0,08	34%
Commuting	6,48	2%	6,32	1%	0,16	3%
Transportation and distribution (upstream)	34,38	9%	56,36	10%	(21,98)	-39%
Fuel- and energy-related activities	15,33	4%	80,98	15%	(65,65)	-81%
Total	396,54	100%	551,00	100%	(150,38)	-27%

Emissions from the UHPP unit decreased by 27% in 2024 compared to 2023. This change is associated with lower emissions from Fugitive Emissions (-96%) and Capital Goods (-67%).

Results / Renewable / REMG / UHPP – Hydroelectric Plant Ponte de Pedra

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	32,93	20,01	27,92	21,46	15,16	15,52	21,12	15,97	36,62	10,19	18,71	22,31	47,99	115,29	15,45
Scope 2	5,96	2,79	7,45	10,52	15,14	14,84	6,87	3,73	1,28	0,18	0,03	0,08	0,01	-	-
Scope 3	52,87	75,92	103,42	94,08	61,07	74,43	48,64	34,37	74,16	58,24	36,59	46,74	359,54	435,71	381,09
Total Emissions	91,76	98,72	138,79	126,06	91,37	104,79	76,63	54,07	112,06	68,61	55,33	69,13	407,54	551	396,54

Results / Renewable / REMG / UHPP – Hydroelectric Plant Ponte de Pedra

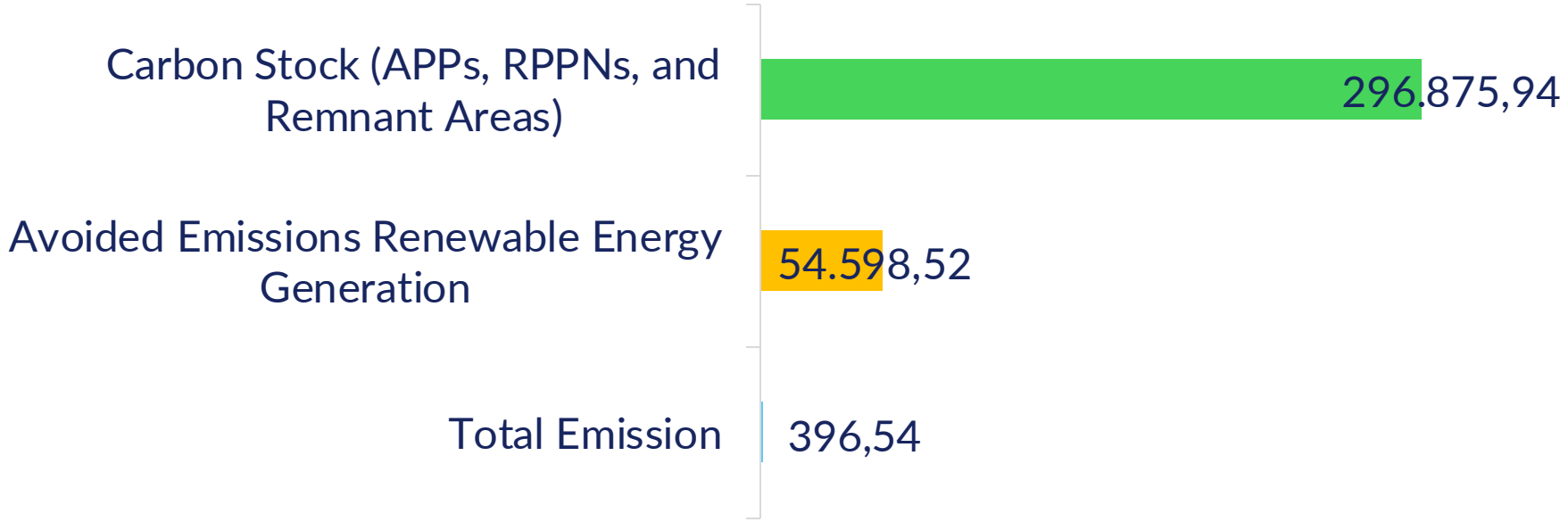
Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	24,27	37%	24,44	36%	(0,17)	1%
Stationary Combustion	0,54	1%	0,70	1%	(0,16)	-23%
Mobile Combustion	23,73	36%	23,74	35%	(0,01)	-0%
Scope 3	40,88	63%	43,78	64%	(2,90)	-7%
Business travel	0,95	1%	10,15	15%	(9,20)	-91%
Commuting	0,94	1%	0,76	1%	0,18	24%
Transportation and distribution (upstream)	38,99	60%	32,87	48%	6,12	19%
Total	65,15	100%	68,22	100%	(3,07)	-4%

A 4% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-91%).

Results / Renewable / REMG / UHPP – Hydroelectric Plant Ponte de Pedra

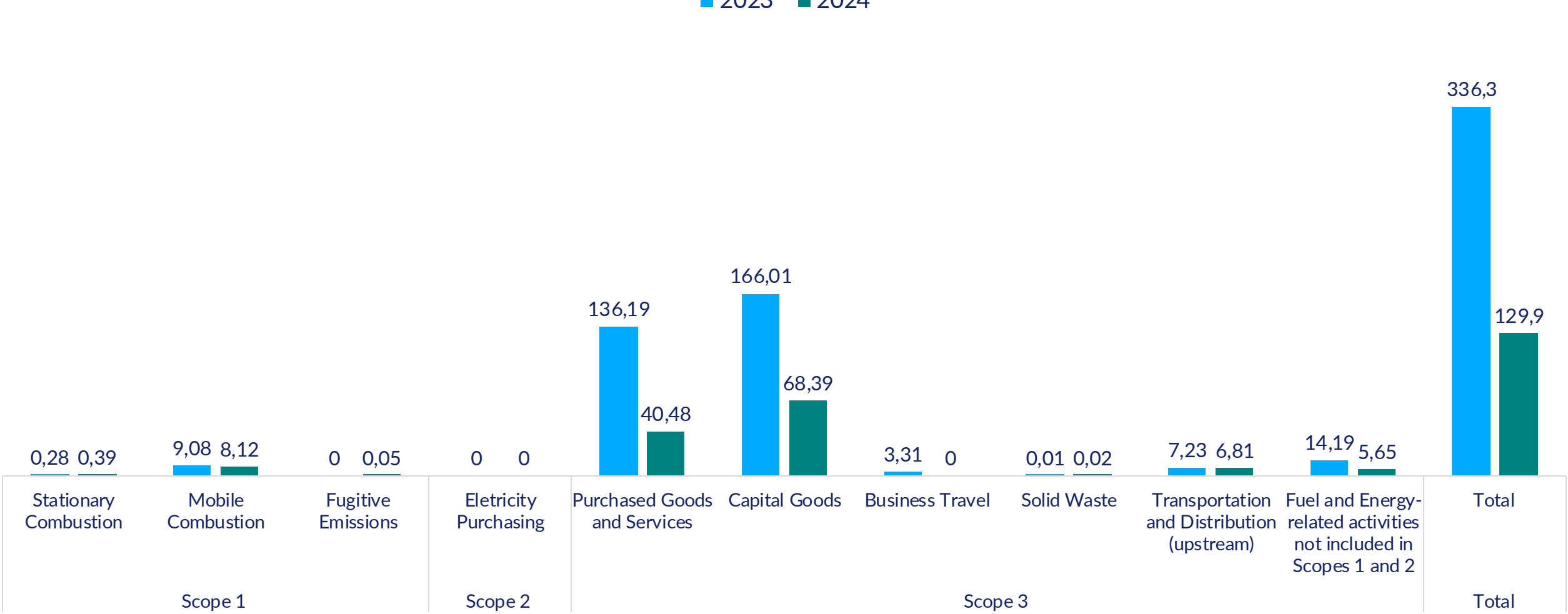
Balance of Emissions (tCO_2e)



Results / Renewable/ REMG / PHRO - Hydroelectric Plant Rondonópolis

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results / Renewable/ REMG / PHRO - Hydroelectric Plant Rondonópolis

Emissions per Source (tCO_2e) 2024 x 2023

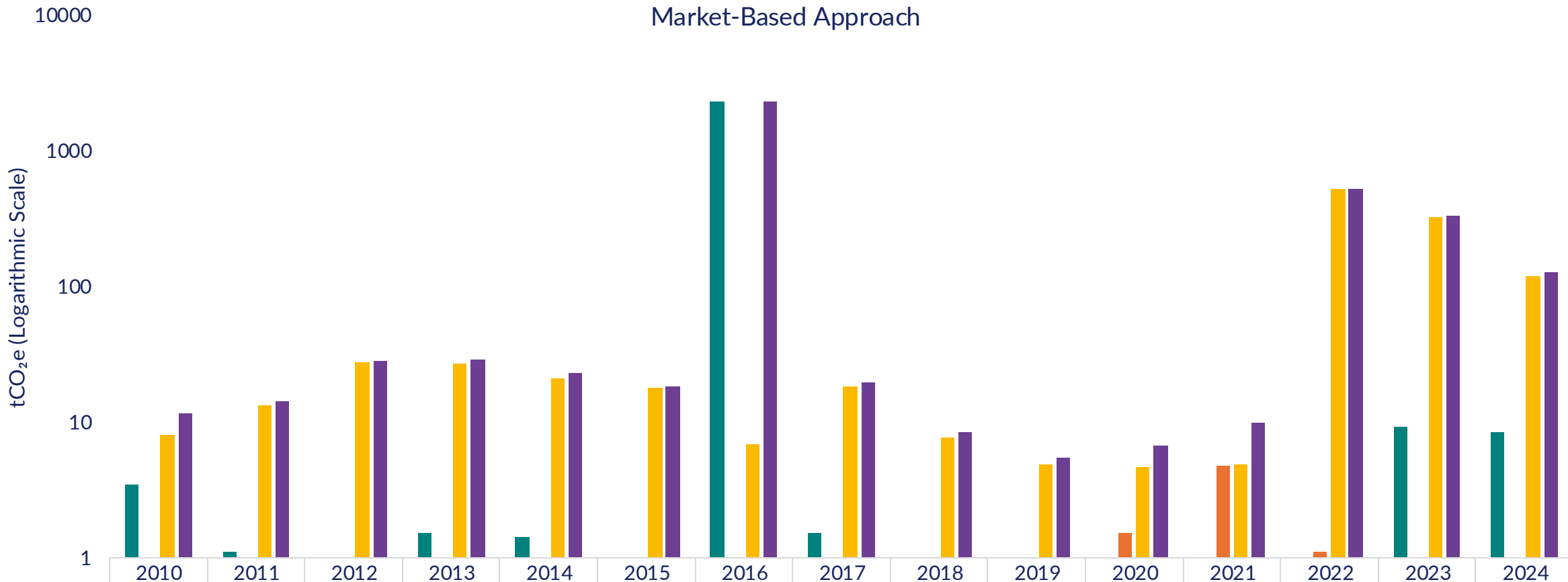
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	8,55	7%	9,36	3%	(0,81)	-9%
Stationary Combustion	0,39	0%	0,28	0%	0,11	38%
Mobile Combustion	8,12	6%	9,08	3%	(0,96)	-11%
Fugitive Emissions	0,05	0%	-	0%	0,05	100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	121,35	93%	326,94	97%	(205,59)	-63%
Purchased Goods and Services	40,48	31%	136,19	40%	(95,71)	-70%
Capital Goods	68,39	53%	166,01	49%	(97,62)	-59%
Business travel		0%	3,31	1%	(3,31)	-100%
Waste	0,02	0%	0,01	0%	0,01	132%
Transportation and distribution (upstream)	6,81	5%	7,23	2%	(0,42)	-6%
Fuel- and energy-related activities	5,65	4%	14,19	4%	(8,54)	-60%
Total	129,9	100%	336,3	100%	(206,4)	-61%

Emissions from the PHRO unit decreased by 61% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-70%) and Capital Goods (-59%).

Results / Renewable/ REMG / PHRO - Hydroelectric Plant Rondonópolis

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Escopo 1	3,49	1,11	0,45	1,54	1,42	0,6	2.350,1	1,52	0,87	0,54	0,63	0,28	0,84	9,36	8,55
Escopo 2	0,28	0,11	-	0,2	0,47	0,04	0,09	0,14	0,05	0,08	1,52	4,81	1,11	-	-
Escopo 3	8,02	13,26	27,79	27,36	21,15	18	6,88	18,25	7,66	4,87	4,65	4,93	525,64	326,93	121,35
Emissões Totais	11,79	14,48	28,24	29,1	23,04	18,64	2.357,1	19,91	8,58	5,49	6,8	10,02	527,59	336,29	129,9

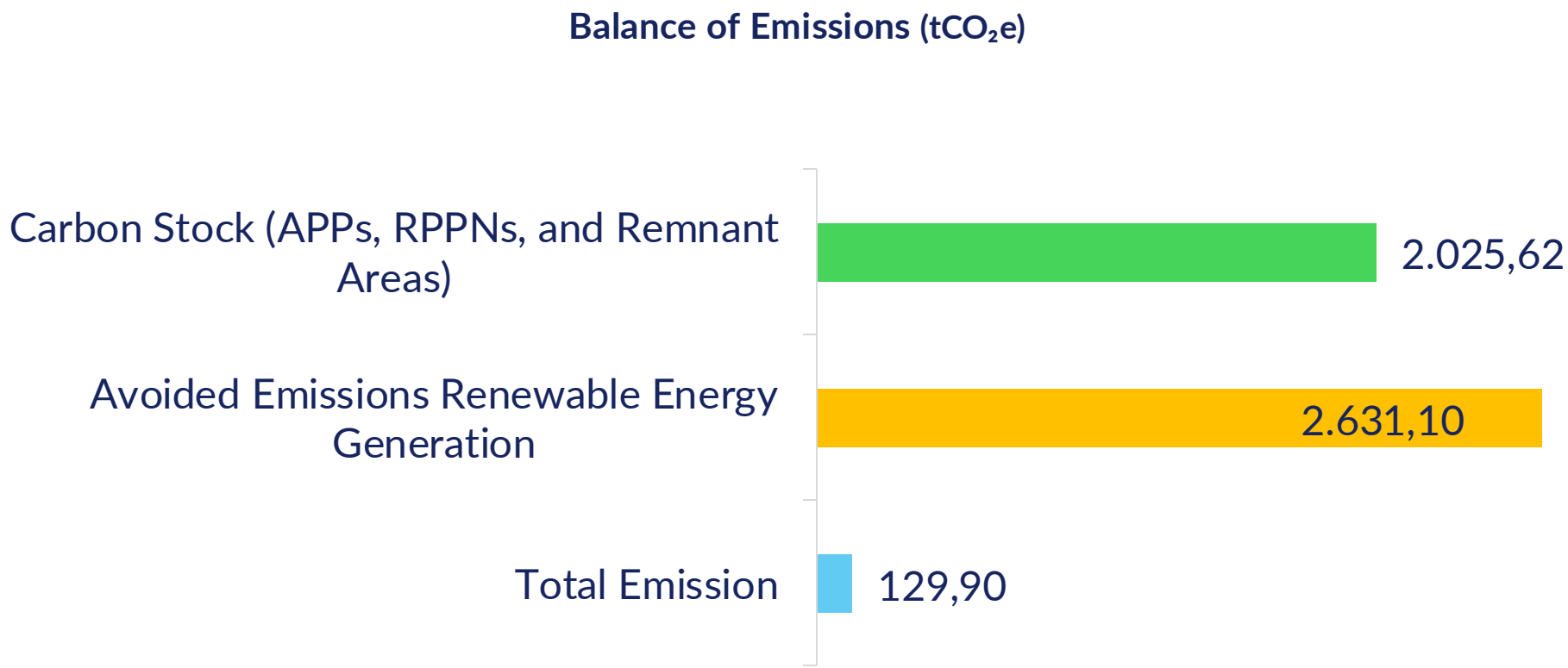
Results / Renewable/ REMG / PHRO - Hydroelectric Plant Rondonópolis

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	7,54	88%	9,79	92%	(2,25)	-23%
Stationary Combustion	0,06	1%	0,04	0%	0,02	46%
Mobile Combustion	7,48	87%	9,75	92%	(2,27)	-23%
Scope 3	1,07	12%	0,86	8%	0,21	24%
Transportation and distribution (upstream)	1,07	12%	0,86	8%	0,21	24%
Total	8,61	100%	10,65	100%	(2,04)	-19%

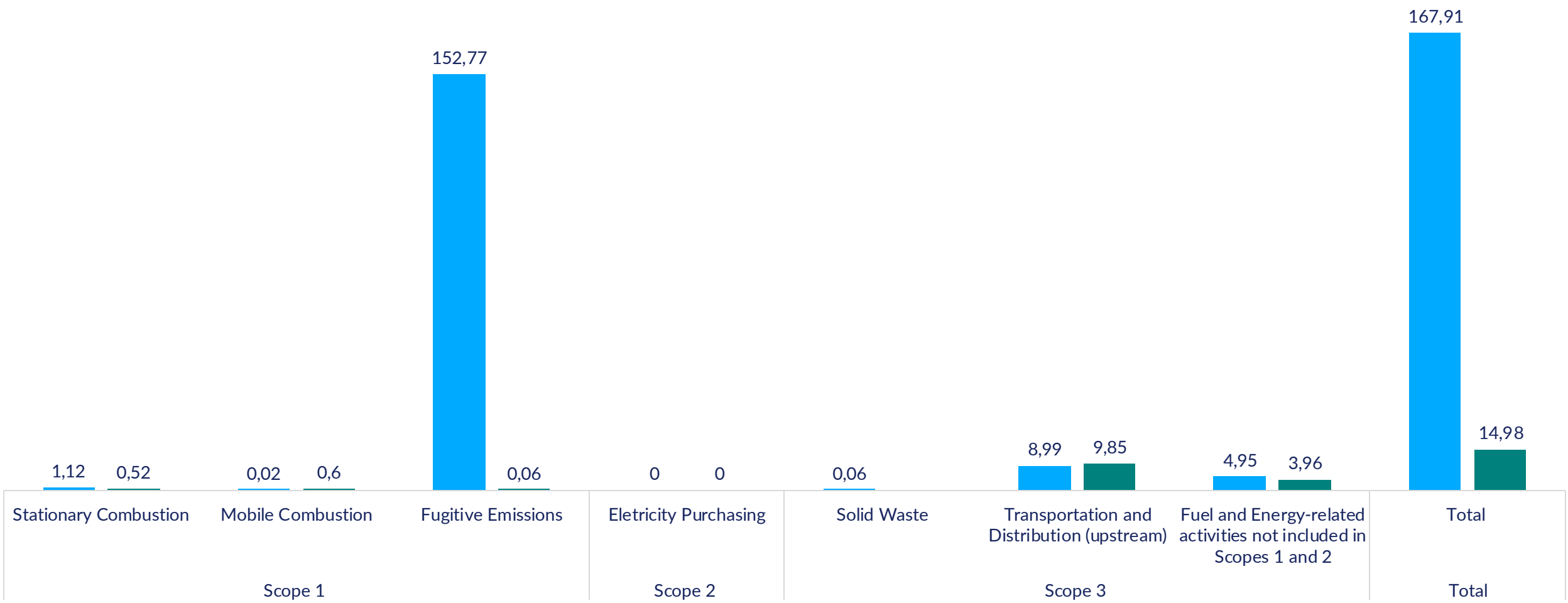
A 19% decrease in biogenic emissions in 2024 compared to 2023, mainly due to the decrease in the consumption of fuels in mobile combustion (-23%).

Results / Renewable/ REMG / PHRO - Hydroelectric Plant Rondonópolis



Results / Renewable / PHJG - Hydroelectric Plant José Gelázio da Rocha

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / PHJG - Hidroelétric Plant José Gelázio da Rocha

Comparative Emissions (tCO_2e) 2024 x 2023

Market-Based Approach

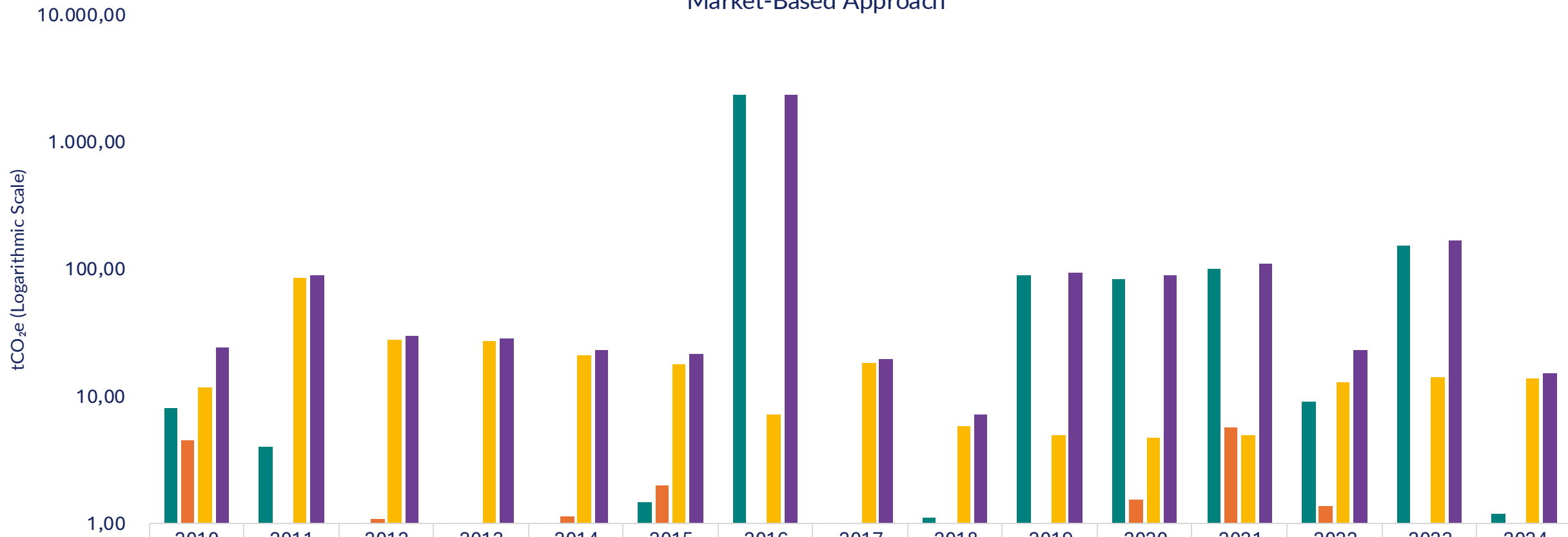
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	1,17	18%	153,91	92%	(152,74)	-98%
Stationary Combustion	0,52	3%	1,12	1%	(0,60)	-53%
Mobile Combustion	0,60	4%	0,02	0%	0,58	2878%
Fugitive Emissions	0,06	11%	152,77	91%	(152,71)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	13,81	81%	14,00	8%	(0,19)	-1%
Waste		0%	0,06	0%	(0,06)	-100%
Transportation and distribution (upstream)	9,85	58%	8,99	5%	0,86	10%
Fuel- and energy-related activities	3,96	23%	4,95	3%	(0,99)	-20%
Total	14,98	100%	167,91	100%	(152,93)	-90%

A 19% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Mobile Combustion (-23%).

Results / Renewable / PHJG - Hydroelectric Plant José Gelázio da Rocha

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	8,12	4,02	0,72	0,86	0,60	1,47	2.349,0	0,93	1,09	89,90	83,01	99,89	8,97	153,91	1,17
Scope 2	4,49	0,67	1,08	0,80	1,12	2,00	0,27	0,35	0,23	0,23	1,52	5,71	1,36	-	-
Scope 3	11,81	85,30	28,05	27,02	21,16	18,00	7,09	18,25	5,77	4,87	4,65	4,87	12,96	13,99	13,81
Total Emissions	24,42	89,99	29,85	28,68	22,88	21,47	2.356,4	19,53	7,09	95,00	89,18	110,47	23,29	167,90	14,98

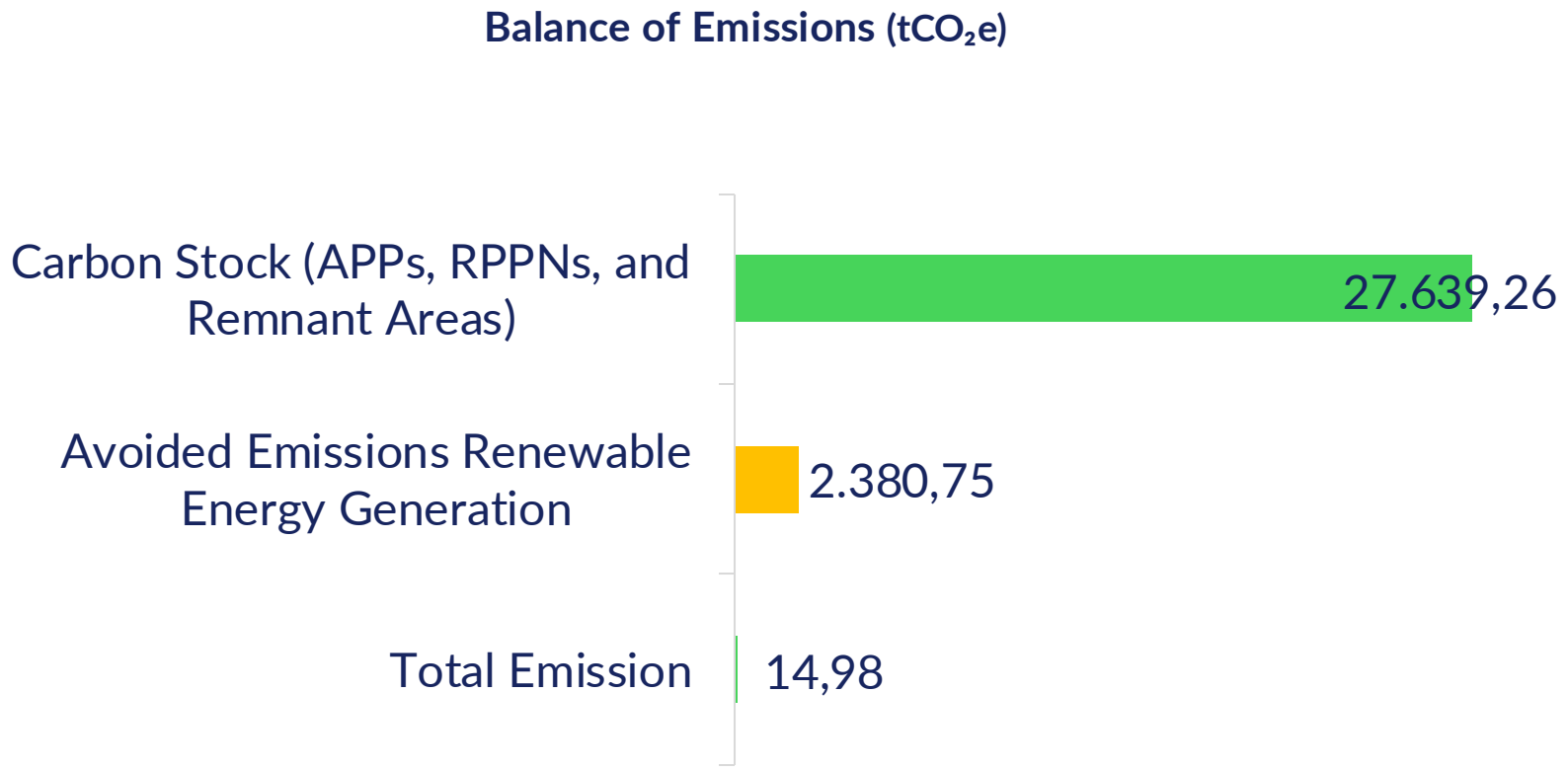
Results / Renewable / PHJG - Hydroelectric Plant José Gelázio da Rocha

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	5,94	77%	2,52	65%	(3,42)	-136%
Stationary Combustion	0,08	1%	0,14	4%	(0,06)	-44%
Mobile Combustion	5,86	76%	2,38	62%	3,48	146%
Scope 3	1,79	23%	1,33	35%	0,46	35%
Transportation and distribution (upstream)	1,79	23%	1,33	35%	0,46	35%
Total	7,74	100%	3,85	100%	3,89	101%

A 101% increase in biogenic emissions in 2024 compared to 2023, primarily due to higher fuel consumption in Mobile Combustion (146%).

Results / Renewable / PHJG - Hydroelectric Plant José Gelázio da Rocha



RERT – TOCANTINS RIVER REGIONAL

UHET - Hydroelectric Plant Estreito



UHCB - Hydroelectric Plant Cana Brava

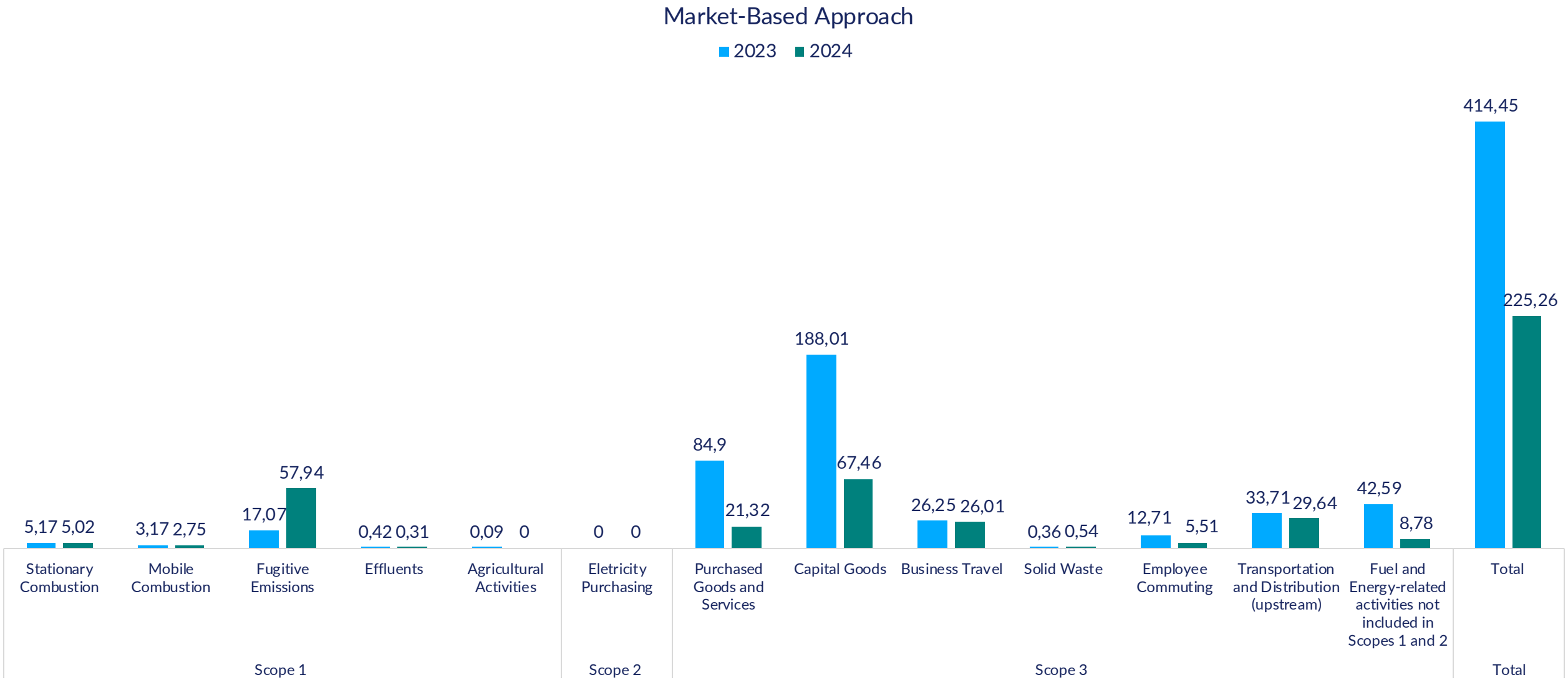


UHSA - Hydroelectric Plant São Salvador



Results / Renewable / RERT / UHET – Hydroelectric Plant Estreito

Emissions Comparison 2024 x 2023 (tCO_2e) per Equity Share



Results / Renewable / RERT / UHET – Hydroelectric Plant Estreito

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

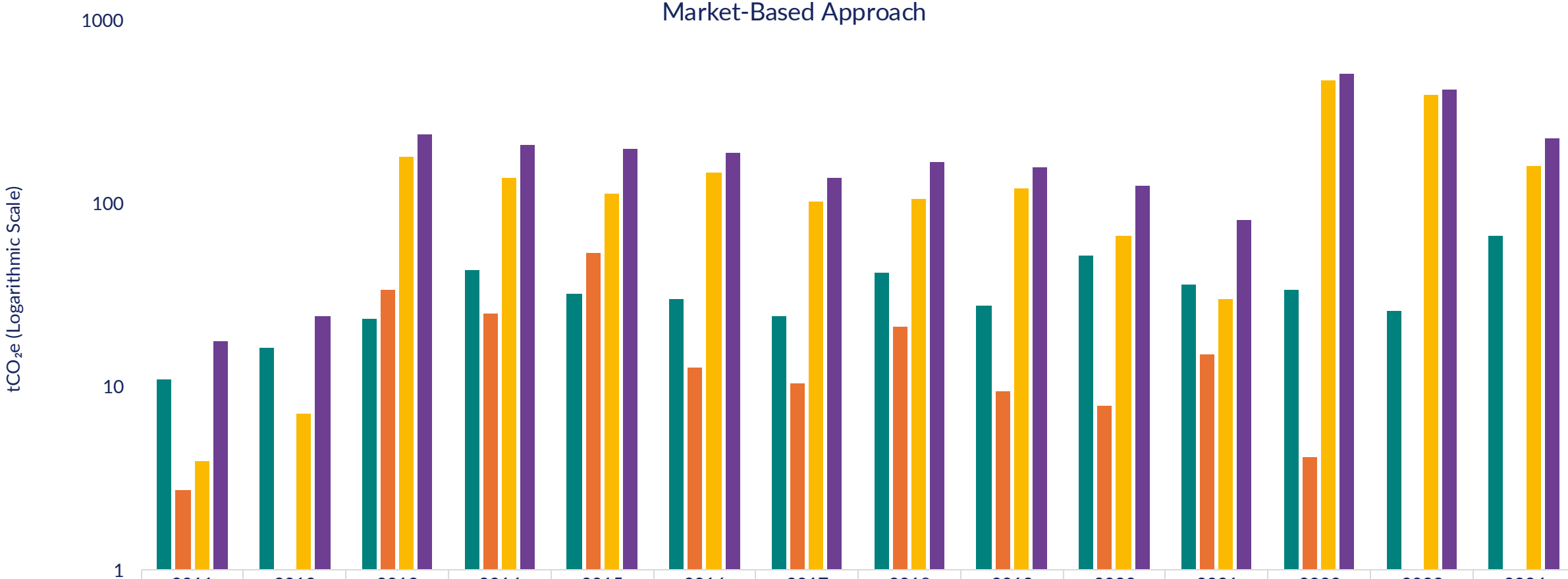
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	66,02	29%	25,92	6%	40,10	155%
Stationary Combustion	5,02	2%	5,17	1%	(0,15)	-3%
Mobile Combustion	2,75	1%	3,17	1%	(0,42)	-13%
Fugitive Emissions	57,94	26%	17,07	4%	40,87	239%
Wastewater Treatment	0,31	0%	0,42	0%	(0,11)	-26%
Agricultural Activity	-	0%	0,09	0%	(0,09)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	159,25	71%	388,53	94%	229,28	-59%
Purchased Goods and Services	21,32	9%	84,90	20%	(63,58)	-75%
Capital Goods	67,46	30%	188,01	45%	(120,55)	-64%
Business travel	26,01	12%	26,25	6%	(0,24)	1%
Waste	0,54	0%	0,36	0%	0,18	49%
Commuting	5,51	2%	12,71	3%	(7,20)	-57%
Transportation and distribution (upstream)	29,64	13%	33,71	8%	(4,07)	-12%
Fuel- and energy-related activities	8,78	4%	42,59	10%	(33,81)	-79%
Total	225,26	100%	414,45	100%	(189,19)	-46%

Emissions from the UHET unit decreased by 46% in 2024 compared to 2023.
This reduction is associated with lower emissions from Capital Goods (-64%).

Results / Renewable / RERT / UHET – Hydroelectric Plant Estreito

Emissions Evolutions (tCO_2e) per Equity Share

Market-Based Approach



	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	10,92	16,26	23,3	43,38	32,06	29,92	24,05	41,62	27,41	51,29	35,86	33,6	25,92	66,02
Scope 2	2,69	0,92	33,57	24,92	53,09	12,7	10,37	20,97	9,4	7,86	14,93	4,12	-	-
Scope 3	3,88	7,12	179,97	138,11	112,2	145,49	101,72	104,52	119,46	65,76	30,04	466,12	388,52	159,25
Total Emissions	17,49	24,3	236,84	206,41	197,35	188,11	136,14	167,11	156,27	124,91	80,83	503,84	414,44	225,26

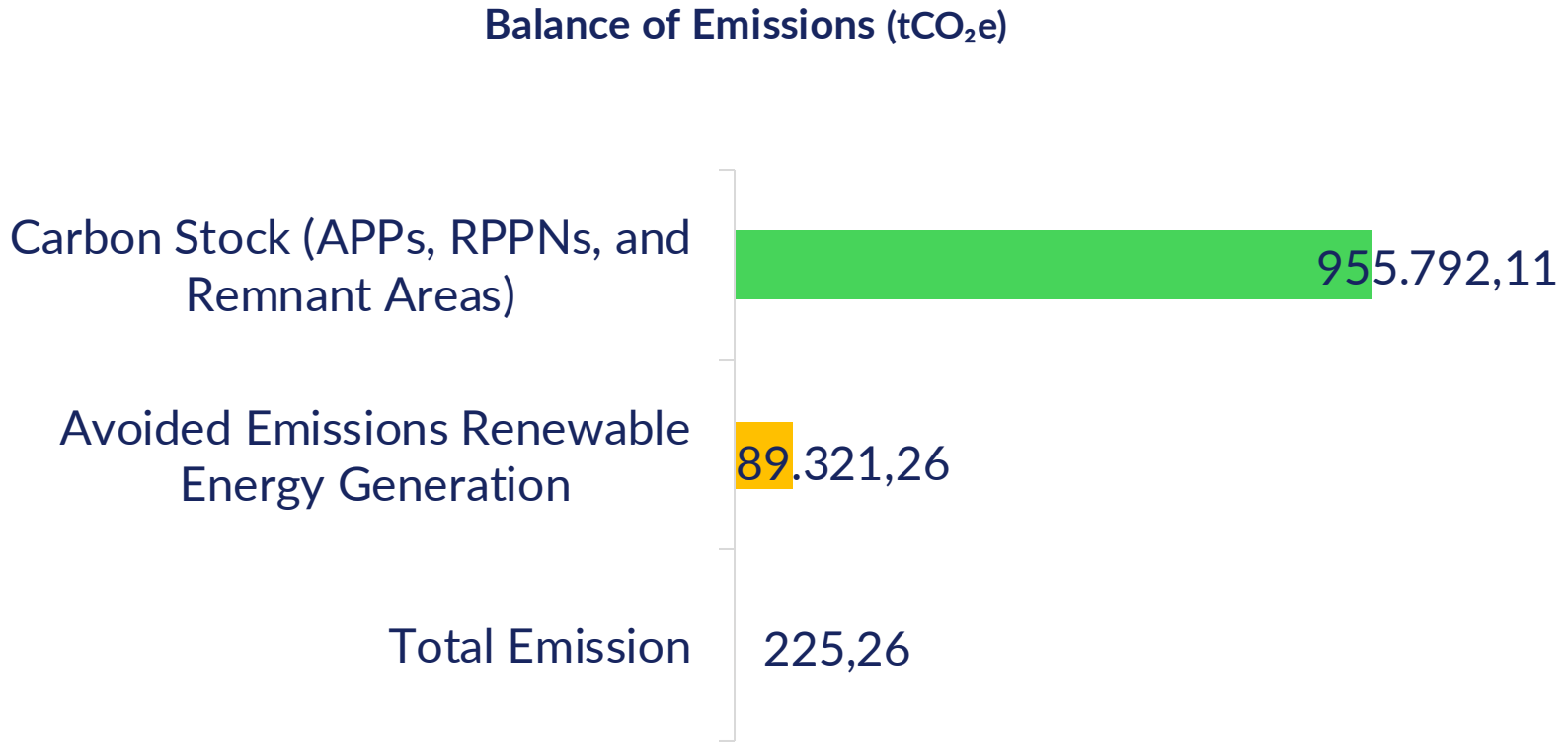
Results / Renewable / RERT / UHET – Hydroelectric Plant Estreito

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	11,43	37%	10,26	30%	1,17	11%
Stationary Combustion	0,74	2%	0,62	2%	0,12	19%
Mobile Combustion	10,69	35%	9,64	28%	1,05	11%
Scope 3	19,27	63%	24,02	70%	(4,75)	-20%
Business travel	0,89	3%	3,18	9%	(2,29)	-72%
Commuting	1,11	4%	2,44	7%	(1,33)	-55%
Transportation and distribution (upstream)	17,27	56%	18,40	54%	(1,13)	-6%
Total	30,70	100%	34,28	100%	(3,58)	-10%

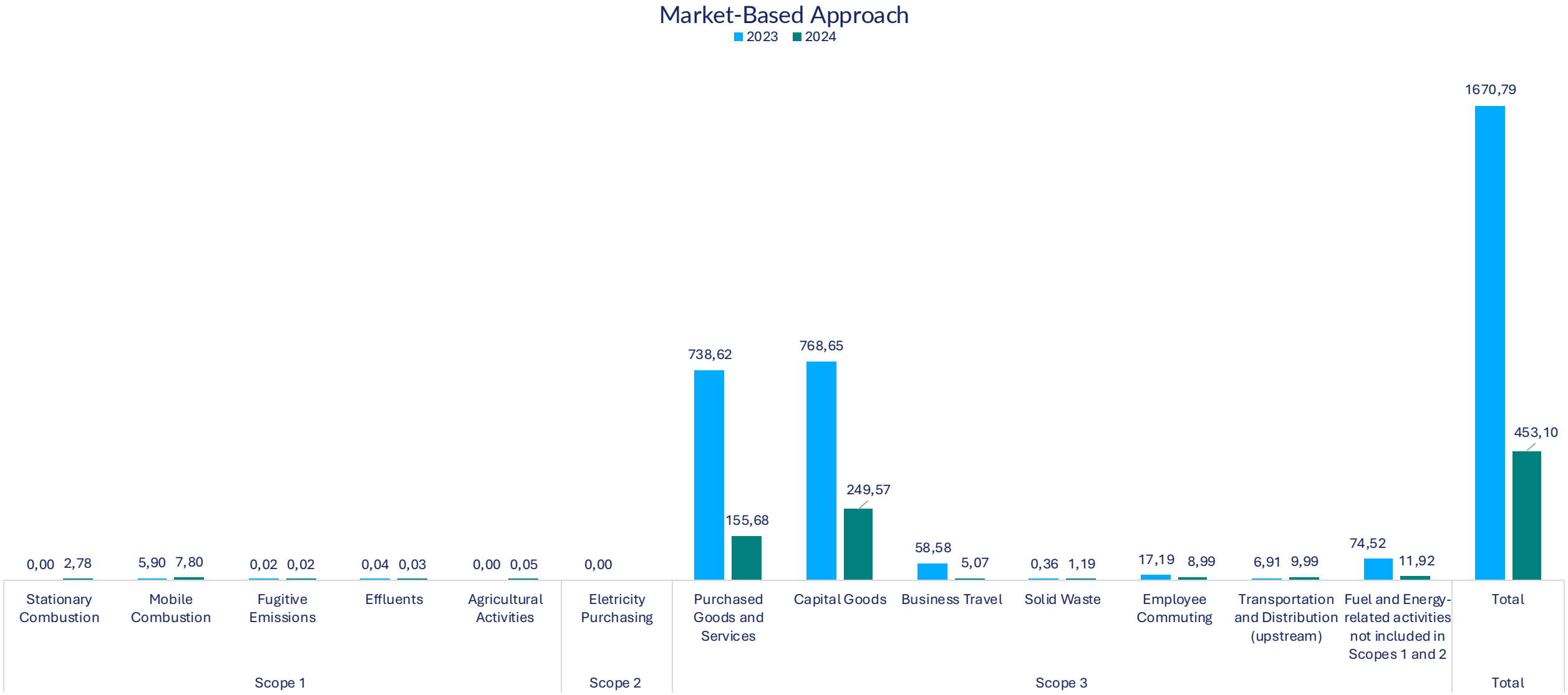
A 10% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Business Travel (-72%).

Results / Renewable / RERT / UHET – Hydroelectric Plant Estreito



Results / Renewable / RERT / UHCB – Hydroelectric Plant Cana Brava

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RERT / UHCB – Hydroelectric Plant Cana Brava

Emissions per Source (tCO_2e) 2024 x 2023

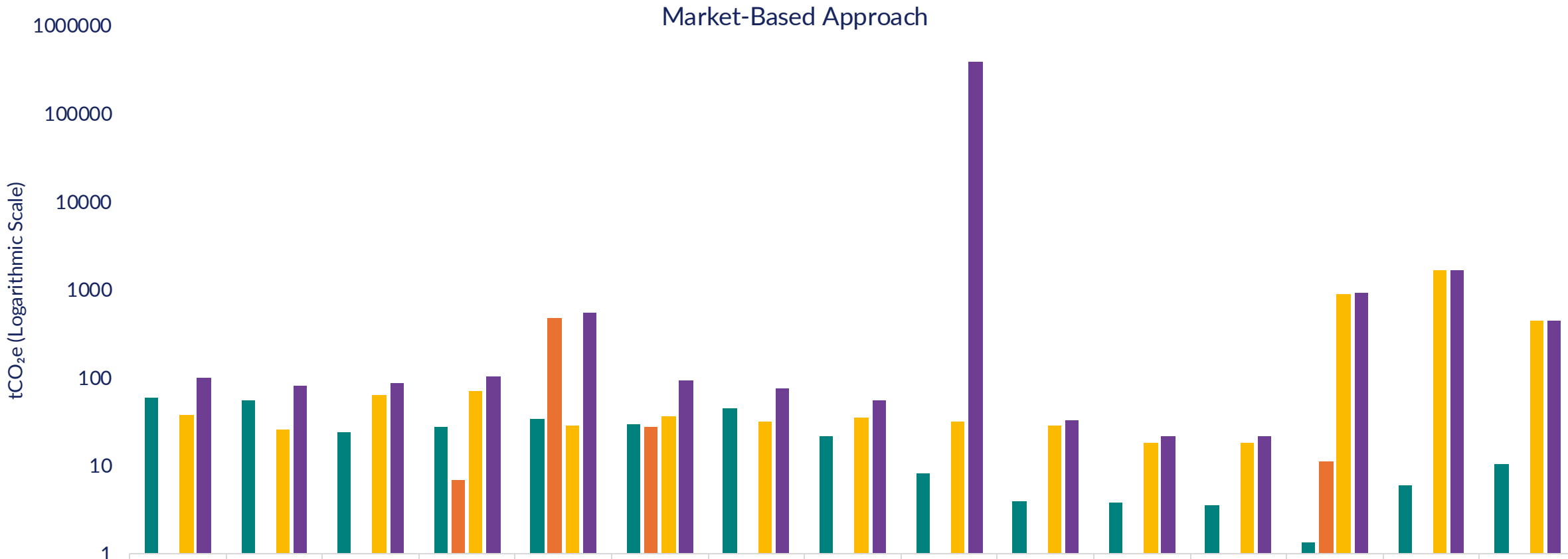
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	10,68	3%	5,96	0,00	7,36	123%
Stationary Combustion	2,78	1%	-	0,00	2,78	100%
Mobile Combustion	7,80	2%	5,90	0,00	1,90	32%
Fugitive Emissions	0,02	0%	0,02	0,00	0,00	0%
Wastewater Treatment	0,03	0%	0,04	0,00	(0,01)	-15%
Agricultural Activity	0,05	0%	0,00	0,00	0,05	4695%
Scope 2		0%	-	0,00	-	00%
Electricity Purchase		0%	-	0,00	-	00%
Scope 3	442,42	97%	1.664,83	1,00	(1.222,41)	-73%
Purchased Goods and Services	155,68	34%	738,62	0,44	(582,94)	-79%
Capital Goods	249,57	55%	768,65	0,46	(519,08)	-68%
Business travel	5,07	1%	58,58	0,04	(53,51)	-91%
Waste	1,19	0%	0,36	0,00	0,83	232%
Commuting	8,99	2%	17,19	0,01	(8,20)	-48%
Transportation and distribution (upstream)	9,99	2%	6,91	0,00	3,08	45%
Fuel- and energy-related activities	11,92	3%	74,52	0,04	(62,60)	-84%
Total	453,10	100%	1.670,79	1,00	(1.217,69)	-73%

Emissions from the UHCB unit decreased by 73% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-79%) and Capital Goods (-68%).

Results / Renewable / RERT / UHCB – Hydroelectric Plant Cana Brava

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	60,85	56,18	24,38	27,75	34,09	29,97	45,04	21,74	8,28	4	3,86	3,55	1,36	5,97	10,68
Scope 2	0,2	-	-	6,83	487,51	28,24	0,04	0,01	0,0001	-	0,05	0,33	11,23	-	-
Scope 3	38,58	25,74	64,29	70,79	28,99	37,26	32,36	35,01	31,88	28,89	18,06	18,29	913,54	1.664,8	442,42
Total Emissions	99,63	81,92	88,67	105,37	550,59	95,47	77,44	56,76	401.601	32,89	21,97	22,17	926,13	1670,79	453,10

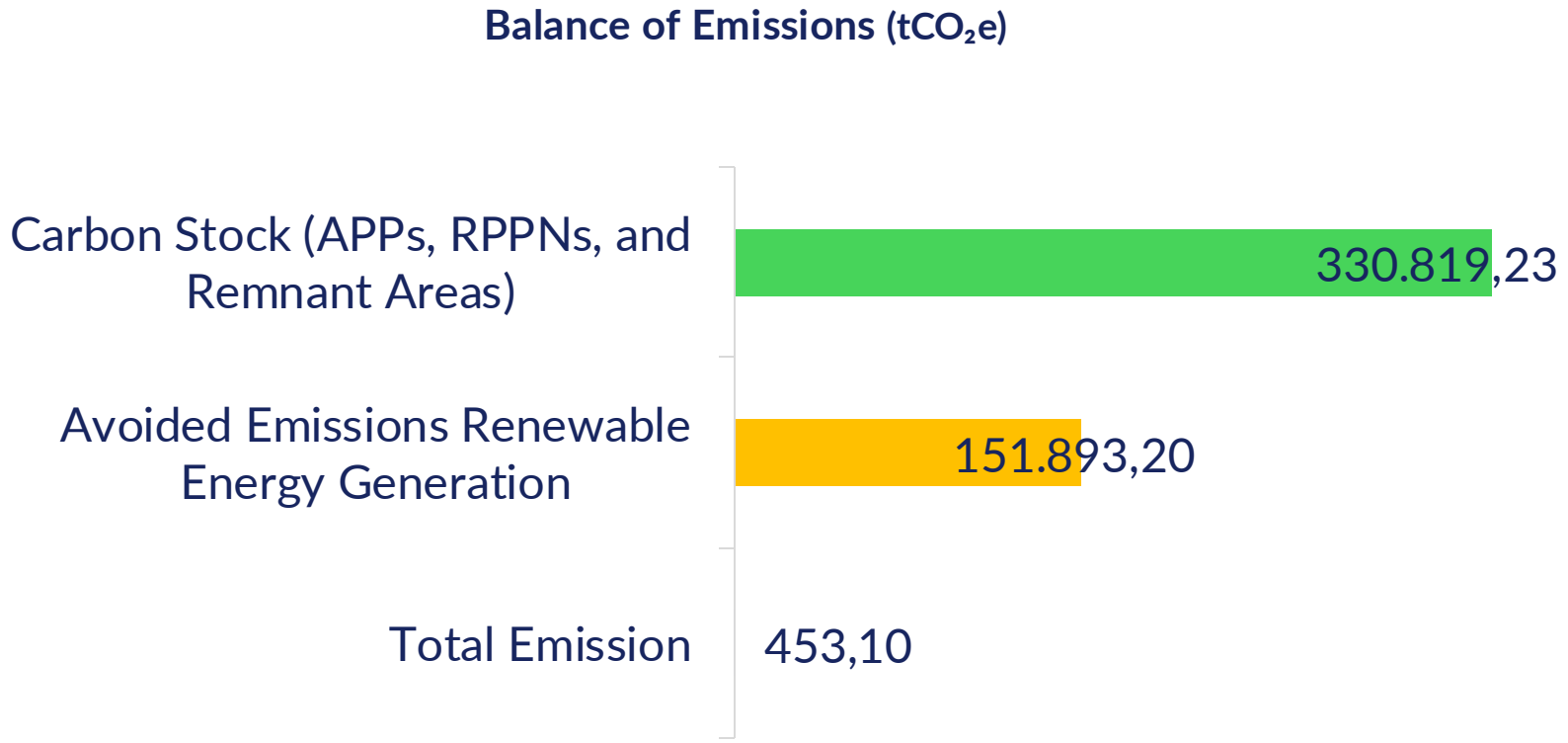
Results / Renewable / RERT / UHCB – Hydroelectric Plant Cana Brava

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	19,04	11%	18,53	33%	0,51	3%
Stationary Combustion	0,42	0%	-	0%	0,42	100%
Mobile Combustion	18,62	10%	18,53	33%	0,09	0%
Scope 3	159,37	89%	37,21	67%	122,16	328%
Business travel	0,37	0%	13,13	24%	(12,76)	-97%
Commuting	1,30	1%	2,06	4%	(0,76)	-37%
Transportation and distribution (upstream)	157,70	88%	22,02	40%	135,68	616%
Total	178,41	100%	55,74	100%	146,75	220%

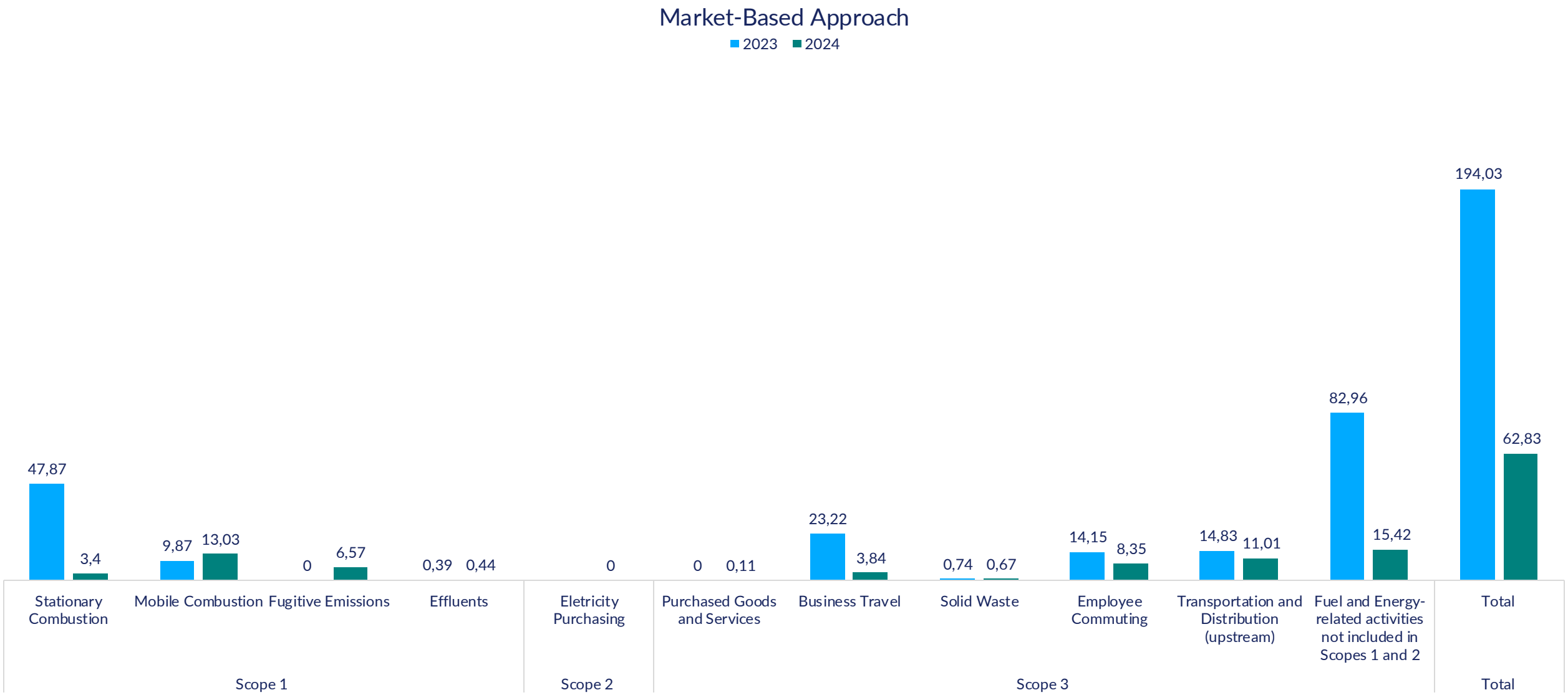
A 220% increase in biogenic emissions in 2024 compared to 2023, primarily due to higher emissions in Transportation and Distribution (upstream) (616%).

Results / Renewable / RERT / UHCB – Hydroelectric Plant Cana Brava



Results / Renewable / RERT / UHSA - Hydroelectric Plant São Salvador

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Renewable / RERT / UHSA - Hydroelectric Plant São Salvador

Emissions per Source (tCO_2e) 2024 x 2023

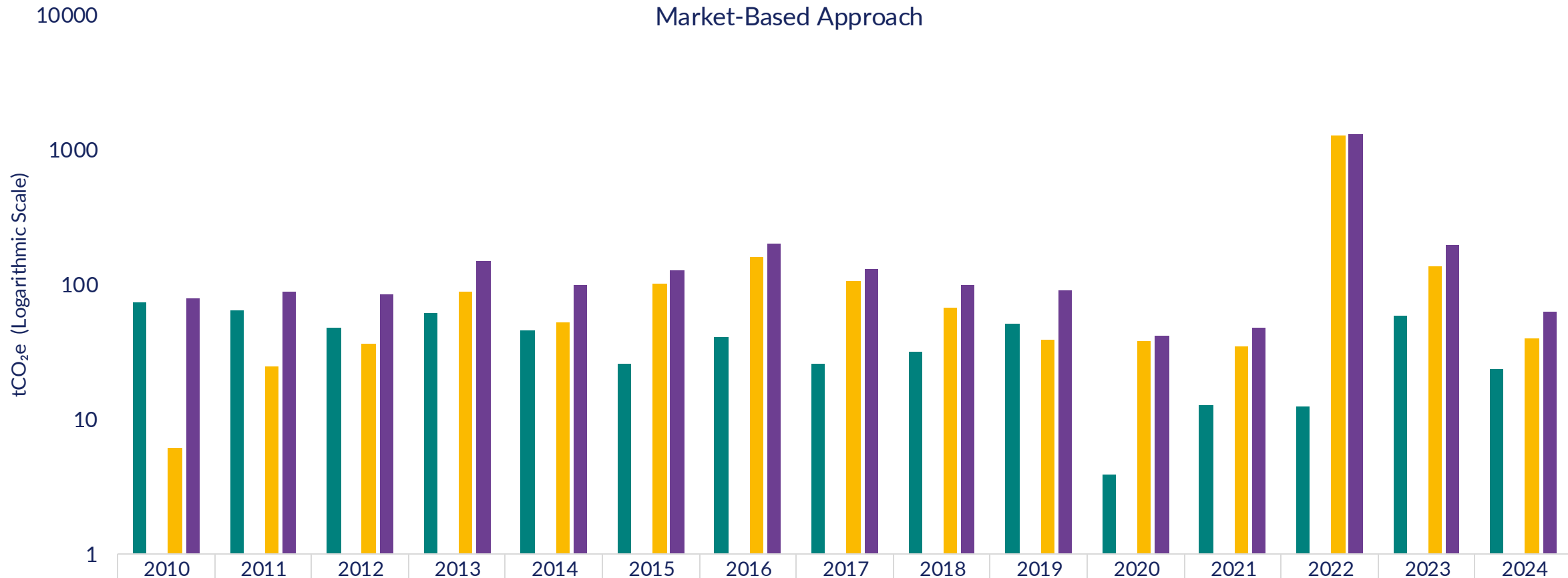
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	23,45	37%	58,13	30%	(34,69)	-60%
Stationary Combustion	3,40	5%	47,87	25%	(44,47)	-93%
Mobile Combustion	13,03	21%	9,87	5%	3,16	32%
Fugitive Emissions	6,57	10%	-	0%	6,57	
Wastewater Treatment	0,44	1%	0,39	0%	0,05	14%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	39,39	63%	135,90	70%	(96,51)	-71%
Purchased Goods and Services	0,11	0%	-	0%	0,11	0%
Business travel	3,84	6%	23,22	12%	(19,38)	-83%
Waste	0,67	1%	0,74	0%	(0,07)	-9%
Commuting	8,35	13%	14,15	7%	(5,80)	-41%
Transportation and distribution (upstream)	11,01	18%	14,83	8%	(3,82)	-26%
Fuel- and energy-related activities	15,42	25%	82,96	43%	(67,54)	-81%
Total	62,83	100%	194,03	100%	(131,20)	-68%

Emissions from the UHSA unit decreased by 64% in 2024 compared to 2023. This change is associated with lower emissions from fuel- and energy-related assets not included in Scopes 1 and 2 (-81%) and Stationary Combustion (-93%).

Results / Renewable / RERT / UHSA - Hydroelectric Plant São Salvador

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share



	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Scope 1	72,73	64,52	47,29	61,36	45,48	25,68	40,19	25,8	31,62	50,71	3,86	12,6	12,27	58,13	23,44
Scope 2	-	-	-	0,0003	0,04	0,01	0	0,01	0,1	-	-	0,000004	0,0004	-	-
Scope 3	6,13	24,46	35,92	87,6	52,3	101,29	159,2	104,58	67,03	38,81	37,89	34,8	1280,16	135,89	39,39
Total Emissions	78,86	88,98	83,21	148,96	97,82	126,98	199,39	130,39	98,75	89,52	41,75	47,40	1.292,43	194,02	62,83

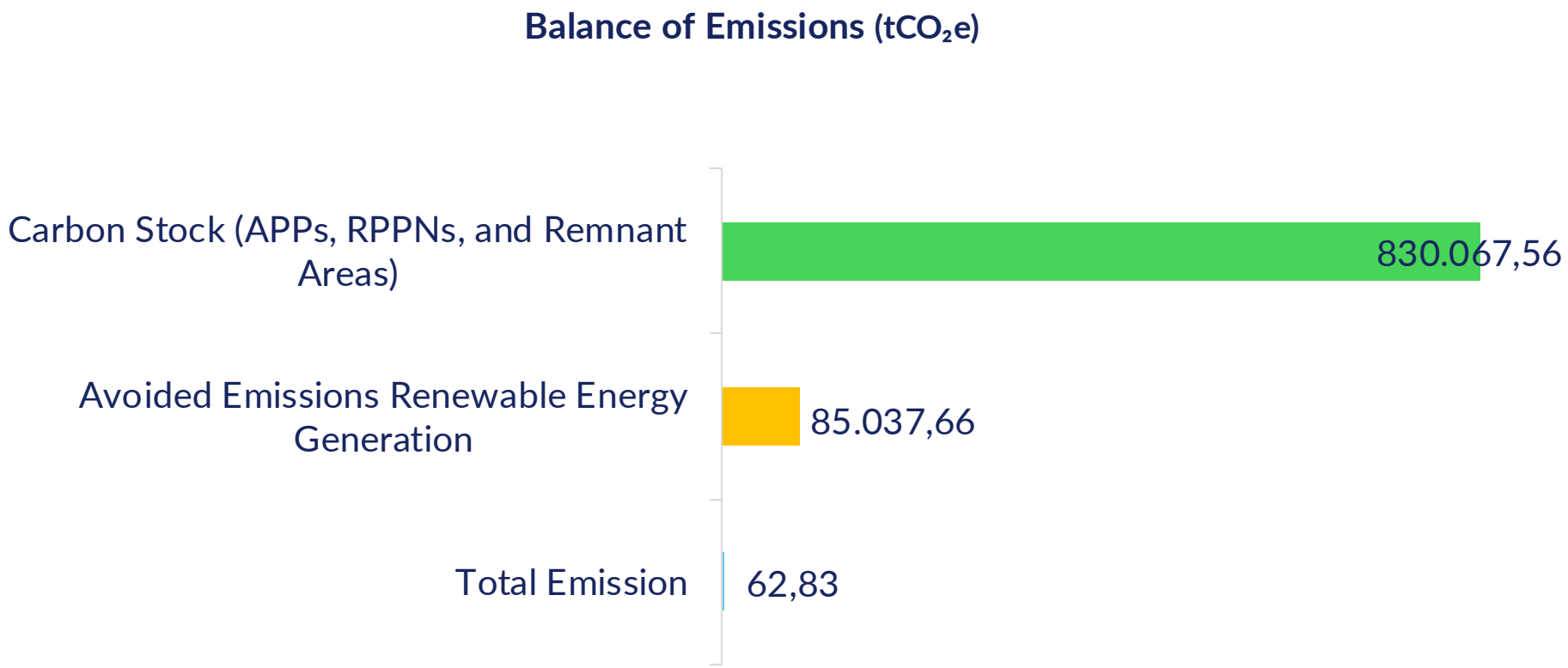
Results / Renewable / RERT / UHSA - Hydroelectric Plant São Salvador

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	24,20	43%	32,53	47%	(8,33)	-26%
Stationary Combustion	0,52	1%	6,07	9%	(5,55))	-92%
Mobile Combustion	23,69	42%	26,46	38%	(2,77)	-10%
Scope 3	32,20	57%	36,39	53%	(4,19)	-12%
Business travel	0,32	1%	3,26	5%	(2,94)	-90%
Commuting	1,21	2%	1,68	2%	(0,47)	-28%
Transportation and distribution (upstream)	30,66	54%	31,45	46%	(0,79)	-3%
Total	56,40	100%	68,92	100%	(12,52)	-18%

Emissions from the unit decreased by 18% in 2024 compared to 2023. This change is associated with lower emissions from Stationary Combustion (-92%), Business Travel (-90%), and Mobile Combustion (-10%).

Results / Renewable / RERT / UHSA - Hydroelectric Plant São Salvador




TRANSMISSION

Transmission

STGA – Transmission System Gralha Azul



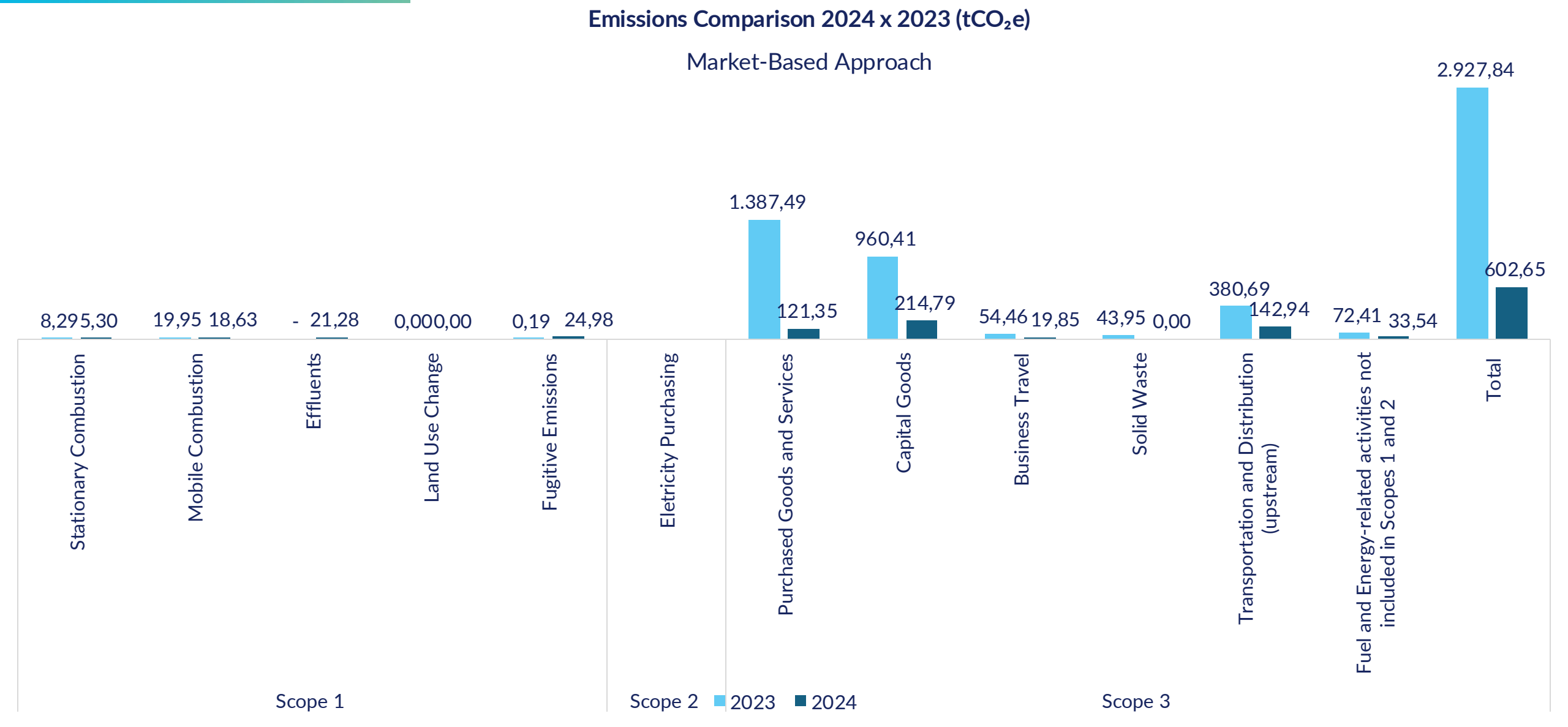
STNE – Transmission System Novo Estado



STGR - Transmission System Gavião Real



Results/Transmission/STGA – Transmission System Gralha Azul



Results/Transmission/STGA – Transmission System Gralha Azul

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

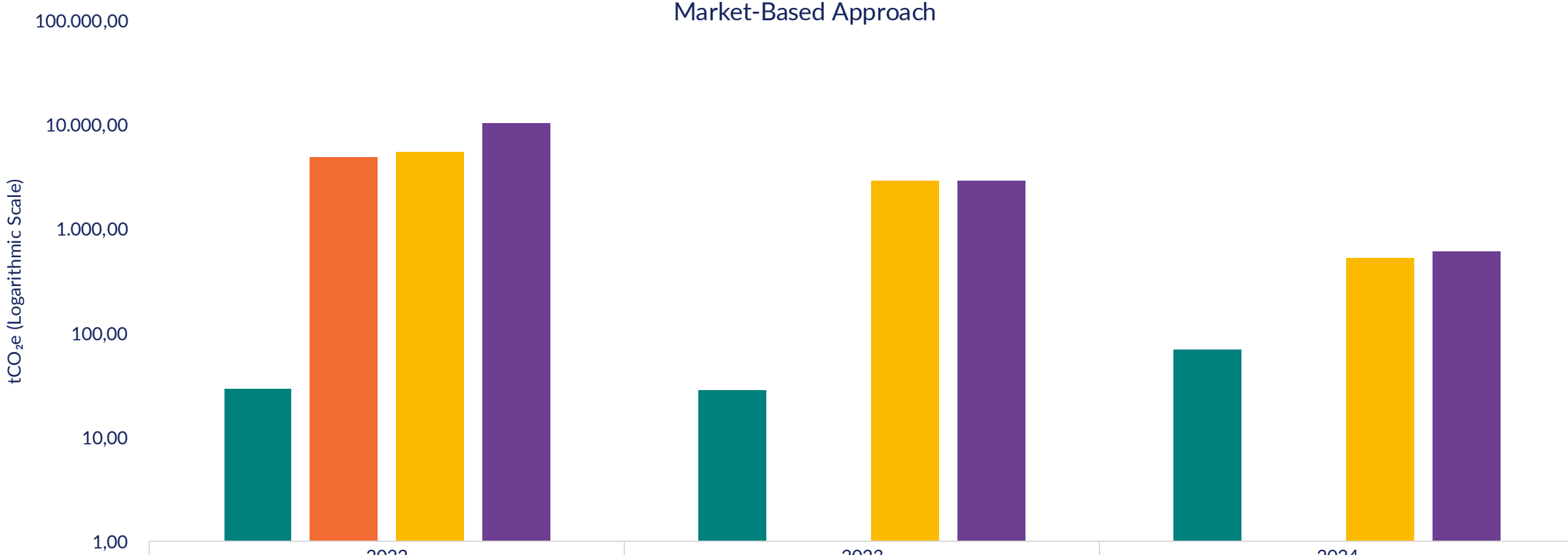
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	70,18	12%	28,43	1%	41,75	147%
Stationary Combustion	5,30	1%	8,29	0%	(2,99)	-36%
Mobile Combustion	18,63	3%	19,95	1%	(1,32)	-7%
Wastewater Treatment	21,28	4%	-	0%	21,28	100%
Land Use Change	0,00	0%	0,00	0%	0,00	7%
Fugitive Emissions	24,98	4%	0,19	0%	24,79	13.045%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	532,47	88%	2.899,41	99%	(2.366,94)	-82%
Purchased Goods and Services	121,35	20%	1.387,49	47%	(1.266,14)	-91%
Capital Goods	214,79	36%	960,41	33%	(745,62)	-78%
Business travel	19,85	3%	54,46	2%	(34,61)	-64%
Waste	0,00	0%	43,95	2%	(43,95)	-100%
Transportation and distribution (upstream)	142,94	24%	380,69	13%	(237,75)	-62%
Fuel- and energy-related activities (not included in scope 1 or scope 2)	33,54	6%	72,41	2%	(38,87)	-54%
Total	602,65	100%	2.927,84	100%	2.325,19	-79%

Emissions from the STGA unit decreased by 79% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-91%) and Capital Goods (-78%).

Results/Transmission/STGA – Transmission System Gralha Azul

Emissions Evolutions (tCO_2e) per Operational Control e Equity Share

Market-Based Approach



	2022	2023	2024
Scope 1	29,25	28,43	70,18
Scope 2	4.899,46	-	-
Scope 3	5.435,86	2.899,41	532,47
Total Emissions	10.364,57	2.927,84	602,65

Results/Transmission/STGA – Transmission System Gralha Azul

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	15,14	34%	11,69	26%	3,45	30%
Stationary Combustion	0,77	2%	2,11	5%	(1,34)	-63%
Mobile Combustion	14,37	32%	9,58	21%	4,79	50%
Scope 3	29,80	66%	33,79	74%	(3,99)	-12%
Business travel	0,34	1%	12,11	27%	(11,77)	-97%
Transportation and distribution (upstream)	29,46	66%	21,68	48%	7,78	36%
Total	44,94	100%	45,48	100%	(0,54)	-1%

Emissions from the unit decreased by 1% in 2024 compared to 2023. This change is associated with lower emissions from Business Travel (-97%).

Results/Transmission/STNE – Transmission System Novo Estado

Emissions Comparison 2024 x 2023 (tCO_2e)



Results / Transmission/STNE – Transmission System Novo Estado

Emissions per Source (tCO_2e) 2024 x 2023

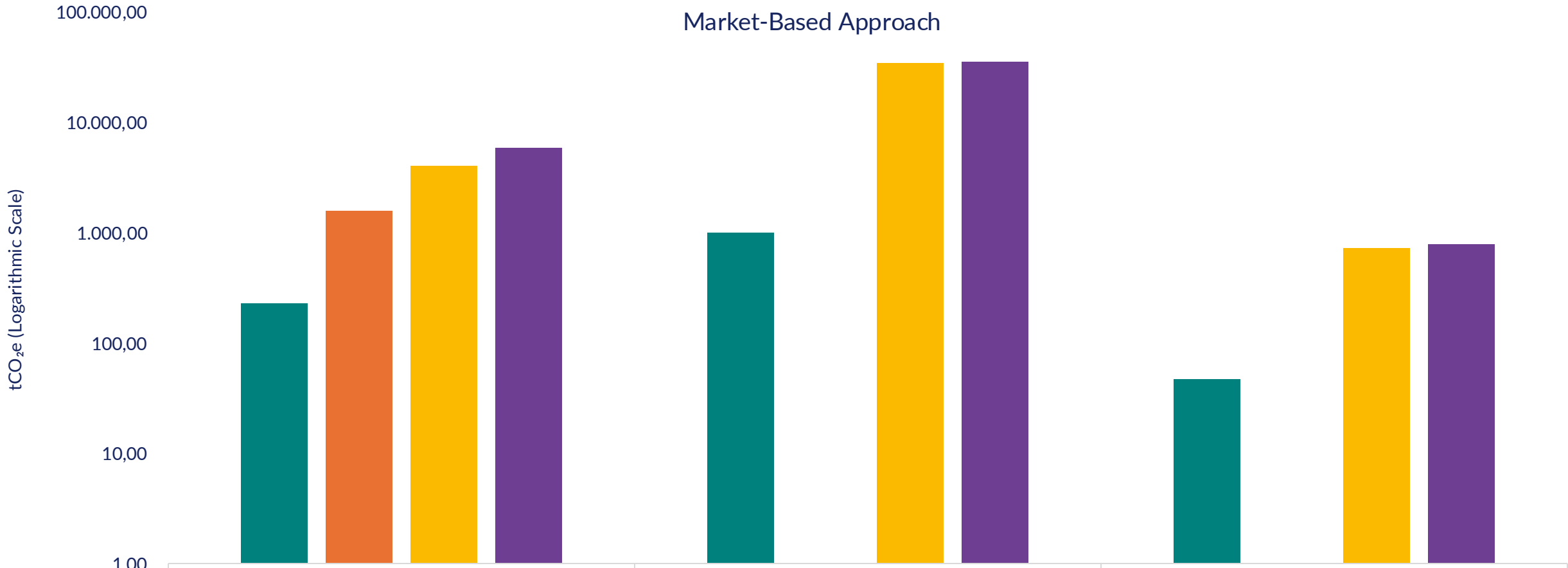
Market-Based Approach

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	46,93	6%	1.006,37	3%	(959,44)	-95%
Stationary Combustion	7,22	1%	12,37	0%	(5,15)	-42%
Mobile Combustion	37,72	5%	97,27	0%	(59,55)	-61%
Fugitive Emissions	2,00	0%	896,73	3%	(894,73)	-100%
Land Use Change	-	0%	0,01	0%	(0,01)	-100%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	730,64	94%	34.764,11	97%	(34.033,47)	-98%
Purchased Goods and Services	54,03	7%	10.011,18	28%	(9.957,15)	-99%
Capital Goods	490,74	63%	20.446,49	57%	(19.955,75)	-98%
Business travel	16,39	2%	119,76	0%	(103,37)	-86%
Waste	-	0%	1,10	0%	(1,10)	-100%
Transportation and distribution (upstream)	103,20	13%	3.107,87	9%	(3.004,67)	-97%
Fuel- and energy-related activities (not included in scope 1 or scope 2)	66,27	9%	1.077,71	3%	(1.011,44)	-94%
Total	777,57	100%	35.770,48	100%	(34.992,91)	-98%

Emissions from the STNE unit decreased by 98% in 2024 compared to 2023. This change is associated with lower emissions from Purchased Goods and Services (-99%) and Capital Goods (-98%).

Results/Transmission/STNE – Transmission System Novo Estado

Emissions Evolutions (tCO_2e) per Operational Control e Equity Share



	2022	2023	2024
Scope 1	226,76	1.006,37	46,93
Scope 2	1.564,27	-	-
Scope 3	4.033,33	34.764,11	730,64
Total Emissions	5.824,36	35.770,48	777,57

Results/Transmission/STNE – Transmission System Novo Estado

Biogenic Emissions per Source (tCO_2) 2024 x 2023

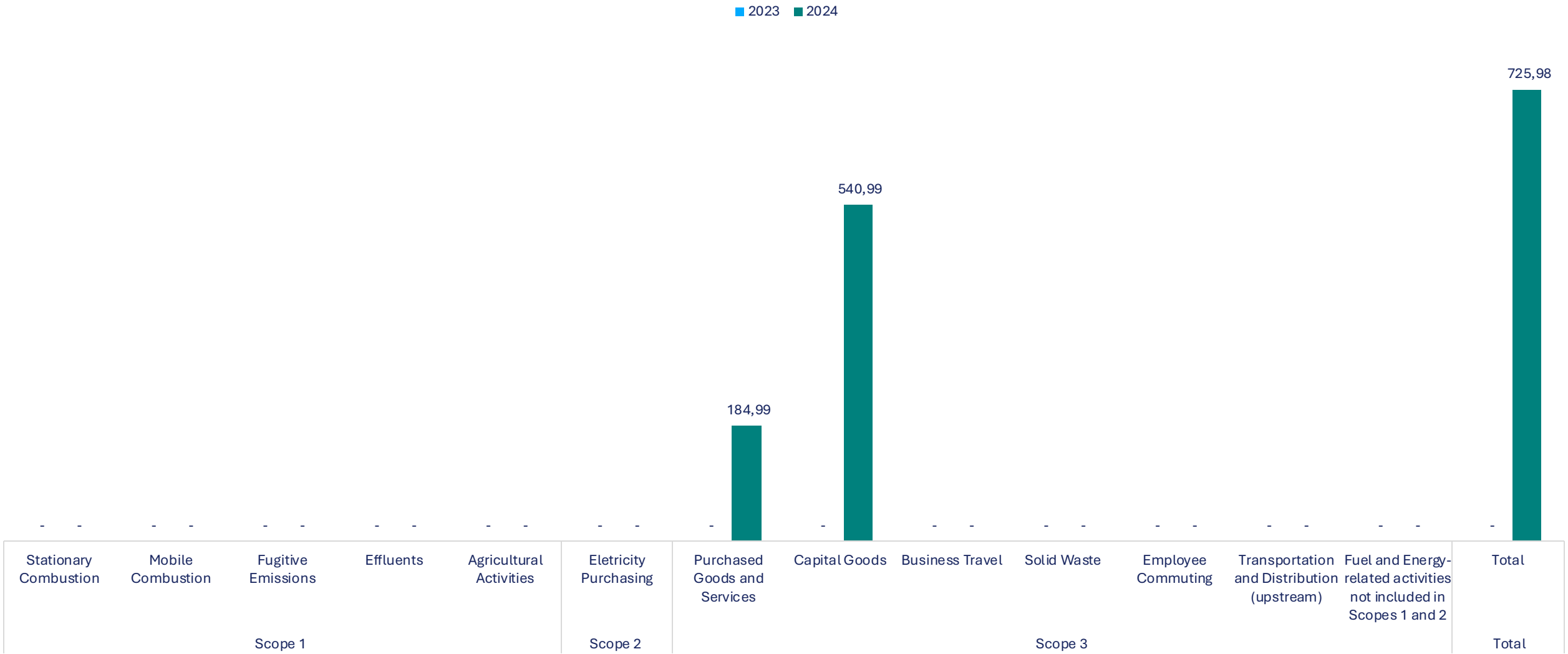
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	15,95	47%	16,78	4%	(0,83)	-5%
Stationary Combustion	1,04	3%	1,45	0%	(0,41)	-28%
Mobile Combustion	14,91	44%	15,33	4%	(0,42)	-3%
Scope 3	17,87	53%	416,89	96%	(399,02)	-96%
Business travel	0,49	1%	24,52	6%	(24,03)	-98%
Transportation and distribution (upstream)	17,39	51%	392,37	90%	(374,98)	-96%
Total	33,83	100%	433,67	100%	(399,84)	-92%

A 92% decrease in biogenic emissions in 2024 compared to 2023, primarily due to a reduction in fuel consumption for Transportation and Distribution (upstream) (-96%).

Results/Transmission/STGR - Transmission System Gavião Real

Emissions Comparison 2024 x 2023 (tCO_2e)

Market-Based Approach



Results/Transmission/STGR - Transmission System Gavião Real

Emissions per Source (tCO_2e) 2024 x 2023

Market-Based Approach

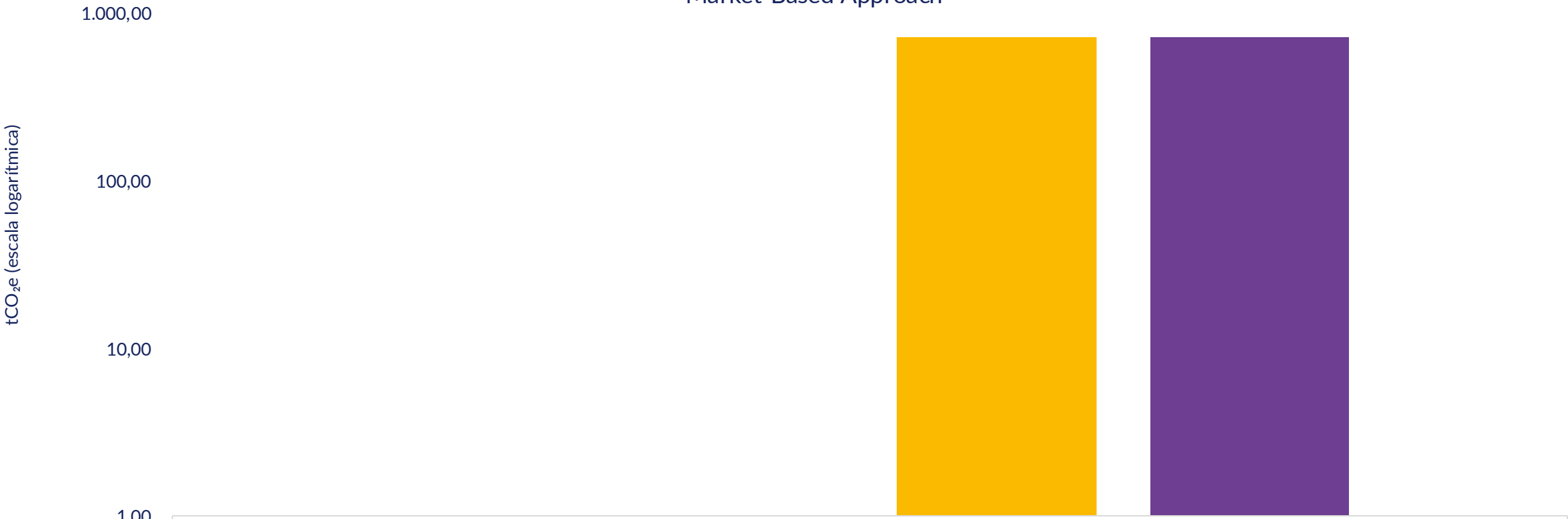
Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	-	0%	-	0%
Stationary Combustion	-	0%	-	0%	-	0%
Mobile Combustion	-	0%	-	0%	-	0%
Fugitive Emissions	-	0%	-	0%	-	0%
Wastewater Treatment	-	0%	-	0%	-	0%
Agricultural Activity	-	0%	-	0%	-	0%
Scope 2	-	0%	-	0%	-	0%
Electricity Purchase	-	0%	-	0%	-	0%
Scope 3	725,98	100%	-	0%	725,98	100%
Purchased Goods and Services	184,99	25%	-	0%	184,99	100%
Capital Goods	540,99	75%	-	0%	540,99	100%
Business travel		0%	-	0%	-	0%
Waste		0%	-	0%	-	0%
Commuting		0%	-	0%	-	0%
Transportation and distribution (upstream)		0%	-	0%	-	0%
Fuel- and energy-related activities		0%	-	0%	-	0%
Total	725,98	100%	-	0%	725,98	100%

First year of unit measurement, with the main biogenic emissions linked to the Capital Goods category (75%).

Results / Transmission / STGR - Transmission System Gavião Real

Emissions Evolutions (tCO_2e) per Operational Control and Equity Share

Market-Based Approach



	2024
Scope 1	-
Scope 2	-
Scope 3	725,98
Total Emissions	725,98

Results / Transmission / STGR - Transmission System Gavião Real

Biogenic Emissions per Source (tCO_2) 2024 x 2023

Emission Source	Total Emissions				Variation	
	2024		2023		2024 x 2023	
	tCO_2e	%	tCO_2e	%	tCO_2e	%
Scope 1	-	0%	-	0%	-	0%
Stationary Combustion	-	0%	-	0%	-	0%
Mobile Combustion	-	0%	-	0%	-	0%
Scope 3	-	0%	-	0%	-	0%
Business travel	-	0%	-	0%	-	0%
Purchased Goods and Services	-	0%	-	0%	-	0%
Transportation and distribution (upstream)	-	0%	-	0%	-	0%
Total	-	0%	-	0%	-	0%



VERIFICATION

SUMMARY

INSTITUTIONAL

METHODOLOGY

RESULTS

Verification

In order to ensure the completeness and accuracy of the results achieved and the compliance of this GHG emissions inventory with the previously established methodologies, ENGIE Brasil Energia hired Bureau Veritas to carry out the Third-Party Verification.

Bureau Veritas carried out the verification activities in accordance with the Verification Specifications of the Brazilian GHG Protocol Program and the ABNT NBR ISO 14064-1:2022 standard.

The third-party verification process took place in February and March 2024, including document analysis, interviews and on-site visits. At the end of the process, Bureau Veritas attested to the results declared by ENGIE Brasil Energia with a **reasonable level of confidence**.