Eletrobras

GREENHOUSE GAS

EMISSIONS INVENTORY

FOR YEAR 2024 - ELETROBRAS GROUP

Contents

1. Foreword 03
2. Basis of Preparations and Assumptions 05
3. Eletrobras Group GHG Emissions 09
4. GHG Generation and Emission Intensity Matrix 14
5. Air Pollutants: NO_x, SO_x and Particulate Matter 16
6. Montreal Protocol Gases 17
7. Energy Consumption 18
8. Renewable Energy Certificates 19
9. Estimated GHG Emissions and Removals as a Result Of Activities Causing Land-Use Change 21
10. Science Based Target Initiative - SBTi 23
11. Final Considerations 25
12. References 26
13. Appendix 27

1. Foreword

Climate change has been causing impacts that put the existence of current and future generations at risk, and measures must be taken to attempt to minimize these effects. Stabilizing greenhouse gas (GHG) concentrations in the atmosphere at a level that prevents the planet's temperature from rising above 1.5°C has been one of the most recurring concerns in discussions among governments, the scientific community, and businesses since the United Nations Framework Convention on Climate Change (signed in 1992 and enacted in Brazil by Decree No. 2 652/1998).

According to a recent study published in the journal Nature[1], climate change has the potential to reduce global income by an average of 19% by 2050. This translates into an average annual drop of around R$199 trillion (almost 20 times Brazil's GDP) over the next 26 years.

Substantial income reductions are anticipated for most regions, including North America and Europe, with South Asia and Africa being most affected. Brazil is among the most severely affected countries, with projected losses exceeding 25% in the North and mid-west regions. This is caused by the impact of climate change on several aspects relevant to economic growth, such as agricultural yields, labor productivity or infrastructure.

The findings also indicate that the amount lost is six times greater than the expenditures needed over these 26 years to limit global warming to 2°C above pre-industrial levels. The income impairment will exacerbate regional inequalities and is likely to intensify after 2050 if there is no significant and accelerated reduction in emissions. Otherwise, economic losses will be even greater in the second half of the century, reaching up to 60% on average globally by 2100. Not to mention non-economic impacts, such as the loss of human lives and biodiversity.

In this scenario, the business sector plays an increasingly important role by adopting measures to minimize the effects of climate change. Knowing its responsibility in contributing to the global system is the first step. To achieve this, GHG emission inventories are essential tools.

In line with its commitment to best practices in corporate sustainability, Eletrobras has been preparing its "Greenhouse Gas Emissions Inventory" uninterruptedly since 2008. The document presented here is its 17th edition.

Eletrobras' inventory and other initiatives are aligned with the National Climate Change Policy (established by Law 12 187/2009 and regulated by Decree 7 390/2009), which provides, among its instruments: measures that stimulate the development of processes and technologies that contribute to the reduction and removal of greenhouse gases from the atmosphere, as well as the appreciation of proposals that promote greater savings in energy, water, and other natural resources and the reduction of GHG emissions and waste generation; records, inventories, estimates, evaluations, and any other studies of GHG emissions and their sources, prepared based on information and data provided by public and private entities (art. 6, XII and XIII).

[1] *The economic commitment of climate change - Nature | Vol 628 | April 18, 2024.*

Reinforcing our commitment to combating Climate Change, our goal is to be Net Zero by 2030, thus minimizing our negative impact and contributing to the transition to a new development model based on a green and low-carbon economy. This commitment is expressed in our Environmental Policy, including actions to manage greenhouse gas emissions, prioritization of renewable energy and low GHG emission projects and promotion of studies, and is aligned with the 2030 Agenda, in particular the Sustainable Development Goals - SDG 7 - Affordable and Clean Energy and SDG 13 - Climate Action, both of which have been prioritized by Eletrobras Group companies in their corporate strategies.

Our portfolio of projects features an electricity mix that is based on low carbon energy sources, effectively contributing to make Brazil's electricity grid one of the cleanest and most renewable in the world. In 2024, these sources accounted for 97% of our installed capacity. Considering the opportunities related to its renewable portfolio, Eletrobras Group holds registered assets to issue renewable energy certificates.

This report describes the results of greenhouse gas emissions calculations for Eletrobras companies CGT Eletrosul, Eletrobras Chesf, Eletrobras Eletronorte, Eletrobras Furnas (incorporated by Eletrobras in the second half of 2024 and renamed Operação Sudeste), Eletrobras Holding and for the Special Purpose Entities (SPE) over which Eletrobras gained operational control in 2024 - Brasil Ventos, Teles Pires, Baguari, Triângulo Mineira Transmissora, Retiro Baixo Energética and Santo Antônio. It also includes atmospheric emissions of sulfur oxides (SO_x), nitrogen oxides (NO_x), particulate matter, and ozone-depleting substances related to the Montreal Protocol, as well as the estimate of GHG emissions and removals from land-use change activities.

The GHG Emissions Inventory of the Eletrobras Companies is undergoing a methodological transition to increase the generating sources and categories to be considered in its scope 3. It is worth remembering that scope 3, which refers to indirect emissions, does not require reporting according to the GHG Protocol guidelines. However, stakeholders (society, shareholder markets, etc.) are increasingly demanding that these emissions be accounted for, as well as that the categories considered be expanded, especially given that Eletrobras has science-based targets (SBTi, 2024), which need to be supported by a more robust and comprehensive accounting of this scope.

2. Basis of Preparations and Assumptions

- The information required to prepare this Inventory was obtained by filling the indicators and variables of the Sustainability Management Indicators System - IGS.

- The process of verifying and validating the data used, as well as processing and calculating GHG emissions, is carried out by a platform called Emisfera, which consists of a set of computational tools developed by the Brazilian Power Sector Research Center - Cepel for this purpose. Emisfera's main tools are: Collection and Analysis Tool (FCA), which is used to import data from the IGS System, data consistency analysis (rate tier system) and pre-processing for calculating emissions; Emissions Calculation Tool (FCE), responsible for calculating emissions and presenting results in full and/or summarized form, and Emissions Estimation Tool in Land Use Activities (FUS). Figure 1 shows how operate together in the process between the Emisfera tools and the IGS database in the process of preparing the GHG Inventory of Eletrobras Group.

- Since 2016, Emisfera's tools have been aligned with the IGS System (Sustainability Management Indicators) database. In other words, all input values for emissions calculations are collected by IGS, which, through its protocols, guides the measurement of quantities in different companies in the same way. This has made the process more reliable and traceable, as all companies are users of the IGS System and the information is available in a single tool.

- Eletrobras Group's GHG Emissions Inventory uses well-established methodologies to calculate GHG emissions, particularly IPCC[2], and uses the Greenhouse Gas Protocol - GHG Protocol[3] guidelines in terms of organizing emission sources, defining limits, and presenting results. The operational control approach[4] is used as the organizational limit.

- To calculate emissions from electricity consumption, we used the emission factors for the National Grid, which are calculated and published by the Ministry of Science, Technology, Innovation and Communications (MCTIC)[5].

- Emissions from transmission losses were calculated based on information provided by the Eletrobras Group Transmission Division.

[2] The Intergovernmental Panel on Climate Change (IPCC) is a scientific-political body established in 1988 within the scope of the United Nations (UN). Its mission is to disseminate the most advanced knowledge about climate change, identifying its causes, effects, and risks to humanity and the environment, and suggesting ways to combat these issues.

[3] GHG Protocol: internationally recognized corporate standard for accounting and reporting greenhouse gas emissions, launched in 1998 and revised in 2004, today the most widely used tool by companies and governments to understand, quantify and manage their emissions.

[4] Under the operational control approach, an organization is responsible for 100% of the GHG emissions from the units over which it has operational control. It is not responsible for emissions from operations in which it only has an equity interest, the so-called SPEs.

[5] Available at: http://www.mctic.gov.br/mctic/opencms/ciencia/SEPED/clima/textogeral/emissao_corporativos.html.

- For Scope 2 emissions, the location-based approach and the market-based approach are used.

- As a mandatory requirement in Brazil, all gasoline contains a fraction of sugarcane ethanol, and all diesel contains a fraction of biodiesel. Due to this, the GHG emission factor for these fuels is less than those used internationally. Biogenic CO_2 emissions from the consumption of biofuels (biodiesel, ethanol added to gasoline, and fuel ethanol) are stated in a separate table in the inventory, as these emissions are reabsorbed through photosynthesis during the cultivation of sugarcane, soybeans and other crops used in the production of these biofuels. For this reason, since the Eletrobras GHG Inventory for 2013, the emission factors published in the National Inventory of Road Vehicle Emissions (MMA, 2013) have been used instead of IPCC emission factors for the consumption of fuels by road vehicles (ethanol, natural gas, gasoline and diesel).

- Emissions from thermal power purchased by Eletrobras Eletronorte from Independent Power Producers (IPPs) for resale to end consumers are quantified in scope 3 and therefore separately from emissions from Eletrobras' own thermal power plants, which are reported under scope 1.

- Emissions estimates were made for categories 1 and 2 of scope 3, based on data collected on the purchase of materials and equipment and the purchase of capital goods, and multiplied by life cycle, LCA, emission factors from the literature. For category 3, emissions were calculated based on the amount of fuel consumed in scope 1 and a life cycle emission factor was applied, taking extraction and transportation into account. For 2025 the values will be calculated.

- The energy content of fuels consumed has been calculated based on the conversion factors contained in the National Energy Balance (for 2023).

- Emissions from hydroelectric reservoirs belonging to Eletrobras companies have not been reported, due to a lack of a global scientific consensus on a methodology that allows calculating net GHG emissions from water bodies such as artificial reservoirs.

- Point emissions of air pollutants, such as sulfur oxides (SO_x), nitrogen oxides (NO_x) and particulate matter contained in combustion gases, were determined based on monitoring data collected at Eletrobras Group's thermal power plants.

- Emissions of ozone-depleting substances listed in the Montreal Protocol have been estimated based on the sum of three processes: leakage during installation, leakage during maintenance, and leakage during disposal. These emissions are all of gases used in refrigeration and air-conditioning equipment in the companies.

- All data and calculation memories used in GHG inventories are kept on file and verified by an independent third party for every annual edition of the inventory. For the 2025 inventory, base-year 2024, the assurance report was issued on May 29, 2025 by PwC Brazil[6] (Appendix).

[6] In this document "PwC" refers to PricewaterhouseCoopers Auditores Independentes Ltda., a member firm of the PricewaterhouseCoopers network.

Figure 1 – Data acquisition process for the GHG inventory.

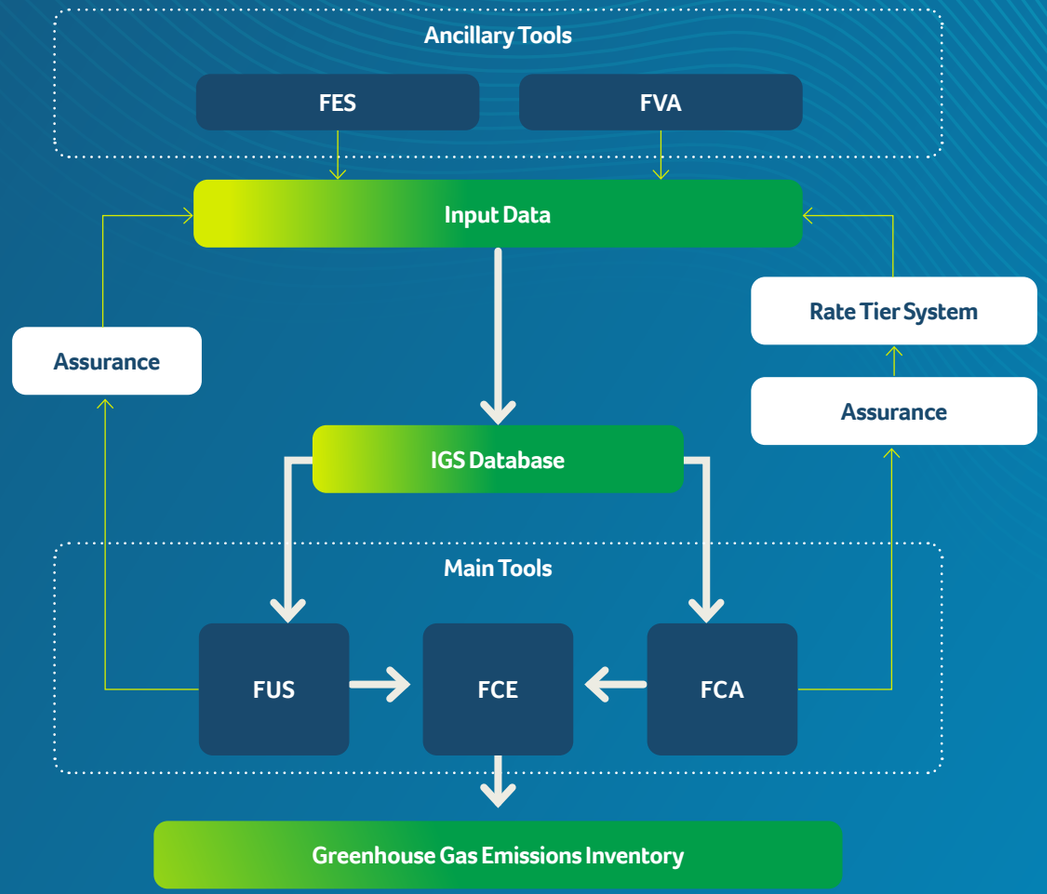
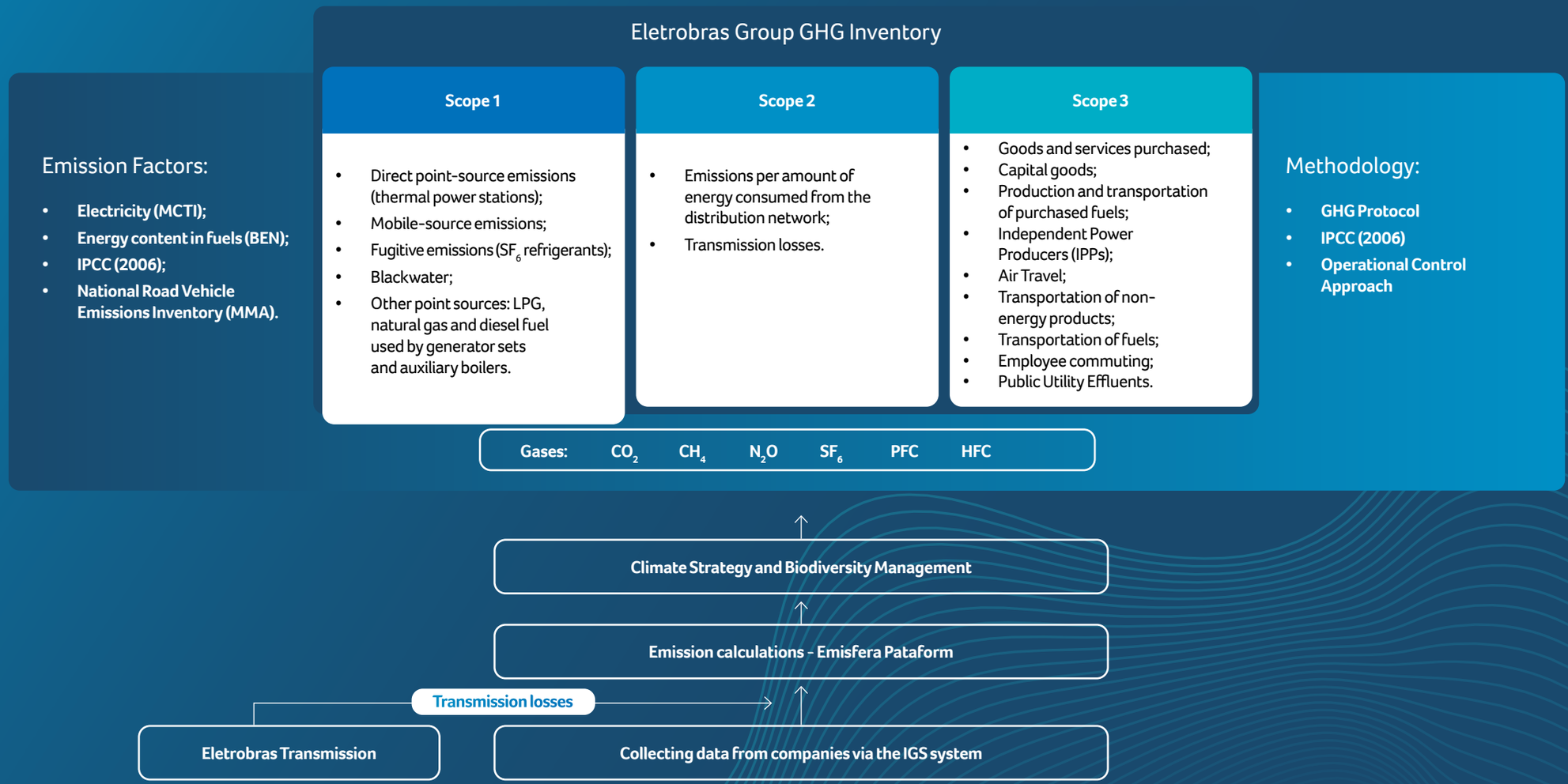


Figure 2 - GHG Inventory development process at Eletrobras Group

Figure 2 shows the GHG Inventory development process used at Eletrobras Group, its scope, general structure, and sources included in the inventory.



3. Eletrobras Group GHG Emissions

Eletrobras Group's GHG emissions for 2024 are shown in summary form in Table 1 and in detail in Table 3. Total emissions were 4,712,238 tCO_2e, considering scopes 1, 2 and 3.

The bulk of emissions are scope 1 (49.5% of the total), followed by scope 3 (40.7% of the total) and scope 2 (9.8% of the total).

Table 1: GHG Emissions By Scope - Year 2024 (tCO_2e)

Scope	GHG Emissions	% of total
Scope 1	2,332,558	49.5
Scope 2	460,723	9.8
Scope 3	1,918,957	40.7
TOTAL	**4,712,238**	**100**

Three sources were responsible for 86% of total emissions in 2024: company-owned thermal power plants (UTEs), independent power producers (IPPs) and Transmission Losses.

GHG emissions that are directly under the operational control of the Eletrobras Group (Scopes 1 and 2) amount to 2,793,281 tCO_2e or 59.3% of the total. Emissions from sources not owned or controlled by the Eletrobras Group (scope 3), which are generated by suppliers of services and products, totaled 1,918,957 tCO_2e.

Out of total direct (scope 1) emissions, 95% were generated by Group-owned thermal power plants.

In scope 2, transmission losses represent 99.7% of emissions, with only 0.3% deriving from electricity consumption.

In 2024 the rate of transmission losses across the Eletrobras Group was 0.6% (table 2). However, these losses are not manageable by transmission concessionaires. Eletrobras Group's transmission subsidiaries are essentially responsible for maintaining the availability of the transmission systems within their concession. The National Grid Operator (ONS) is responsible for planning and defining the operation of the system, and therefore power throughput, and consequently transmission losses are the result of ONS-defined operation strategies. In addition, equipment maintenance has no effect on transmission system losses, but only on availability of this equipment.

Emissions from thermal power purchased from Independent Power Producers (IPPs) represented 72% of total scope 3 emissions.

Table 2: Transmission losses (%) in 2024

Companies	Transmission losses (%)
Eletrobras CGT Eletrosul	0.55
Eletrobras Chesf	0.56
Eletrobras Eletronorte	0.39
Eletrobras Furnas (Operação Sudeste)	0.55
Triângulo Mineiro Transmissora	1.12
TOTAL	**0.6**

In 2024, 85% of scope 2 emissions were offset using renewable energy certificates; net emissions within this scope, using the market-based approach, were 67,103 tCO_2e.

TABLE 3: ELETROBRAS GROUP GHG EMISSIONS – YEAR 2024 (tCO_2e)

Companies	Scope 1									Scope 2		Scope 2 (market based)		Scope 3								Subtotal by Company
	Point			Mobile			Other															
	Group-Owned Thermal Power Plants	Generators	Other	Land	Waterborne	Air	SF_6	Refrigeration	Liquid Effluents	Electricity Consumption	Transmission Losses	Electricity Consumption	Transmission Losses	Goods and services purchased**	Capital Goods**	Production and Transportation of Purchased Fuels**	Independent Power Producers (IPPs)	Transportation of Non-Energy Products	Air Travel	Employee Commuting	Public Utility Effluents	
Eletrobras CGT Eletrosul	N.A	33	0.3	1,293	0.3	N.A	19,133	545	35	49	66,995	0	45,557	-	-	-	N.A	58	331	87	10	**88,570**
Eletrobras Chesf	N.A	282	36	3,236	N.A	58	44,450	4,704	629	494	145,807	0	0	-	-	-	N.A	N.A	903	-	128	**200,727**
Eletrobras Eletronorte	2,005,998	85	155	1,925	16	N.A	20,680	3,157	5	495	51,489	0	18,536	-	-	-	1,379,392	N.A	917	286	0	**3,464,599**
Eletrobras Furnas (Operação Sudeste)	221,353	59	116	1,877	0	N.A	247	819	0.4	312	191,950	0	0	-	-	-	N.A	N.A	257	6	135	**417,132**
Eletrobras Holding	N.A	0.2	N.A	32	N.A	N.A	N.A	N.A	0	122	N.A	0	N.A	2,726	45,192	487,183	N.A	N.A	961	-	18	**536,233**
Special Purpose Entities - SPEs*	N.A	89	48	676	290	N.A	0	482	11	30	2,980	30	2,980	-	-	-	N.A	N.A	217	152	0	**4,976**
Subtotal by source	**2,227,351**	**549**	**355**	**9,039**	**306**	**58**	**84,510**	**9,708**	**682**	**1,502**	**459,221**	**30**	**67,073**	**2,726**	**45,192**	**487,183**	**1,379,392**	**58**	**3,585**	**530**	**291**	
Subtotal by type of source	**2,228,255**			**9,403**			**94,900**			**1,502**	**459,221**	**30**	**67,073**	**2,726**	**45,192**	**487,183**	**1,379,392**	**58**	**3,585**	**530**	**291**	**Total (tCO_2e) 4,712,238**
Subtotal by scope	**2,332,558**									**460,723**		**67,103**		**1,918,957**								

Key: N.A– Not Applicable.
** In 2024, Eletrobras gained operational control over the following Special Purpose Entities - SPEs: Brasil Ventos, Teles Pires, Baguari, Triângulo Mineira Transmissora, Retiro Baixo Energética and Santo Antônio.*
*** Estimated data for 2024.*

Emissions by type of gas are shown in Table 4. Carbon oxide (CO_2) accounts for the bulk of emissions (97.6%). Combined emissions of sulfur hexafluoride (SF_6), nitrous oxide (N_2O), methane (CH_4) and refrigeration gases (HFCs and PFCs) account for 2.4% of the total.

SF_6 is essentially used as an insulating medium in high-voltage circuit breakers. The practices in place for managing or mitigating fugitive emissions of SF_6 include: low SF_6 pressure alarms on circuit breakers; annual breaker pressure inspections; fortnightly circuit breaker inspections; instructions on identifying SF_6 leakage; the use of SF_6 detectors; and special equipment for collecting and treating SF_6 gas.

Fugitive emissions of SF_6 contained in high-voltage equipment essentially derive from: 1) equipment (circuit breaker) construction technology; 2) severe failure; 3) maintenance processes.

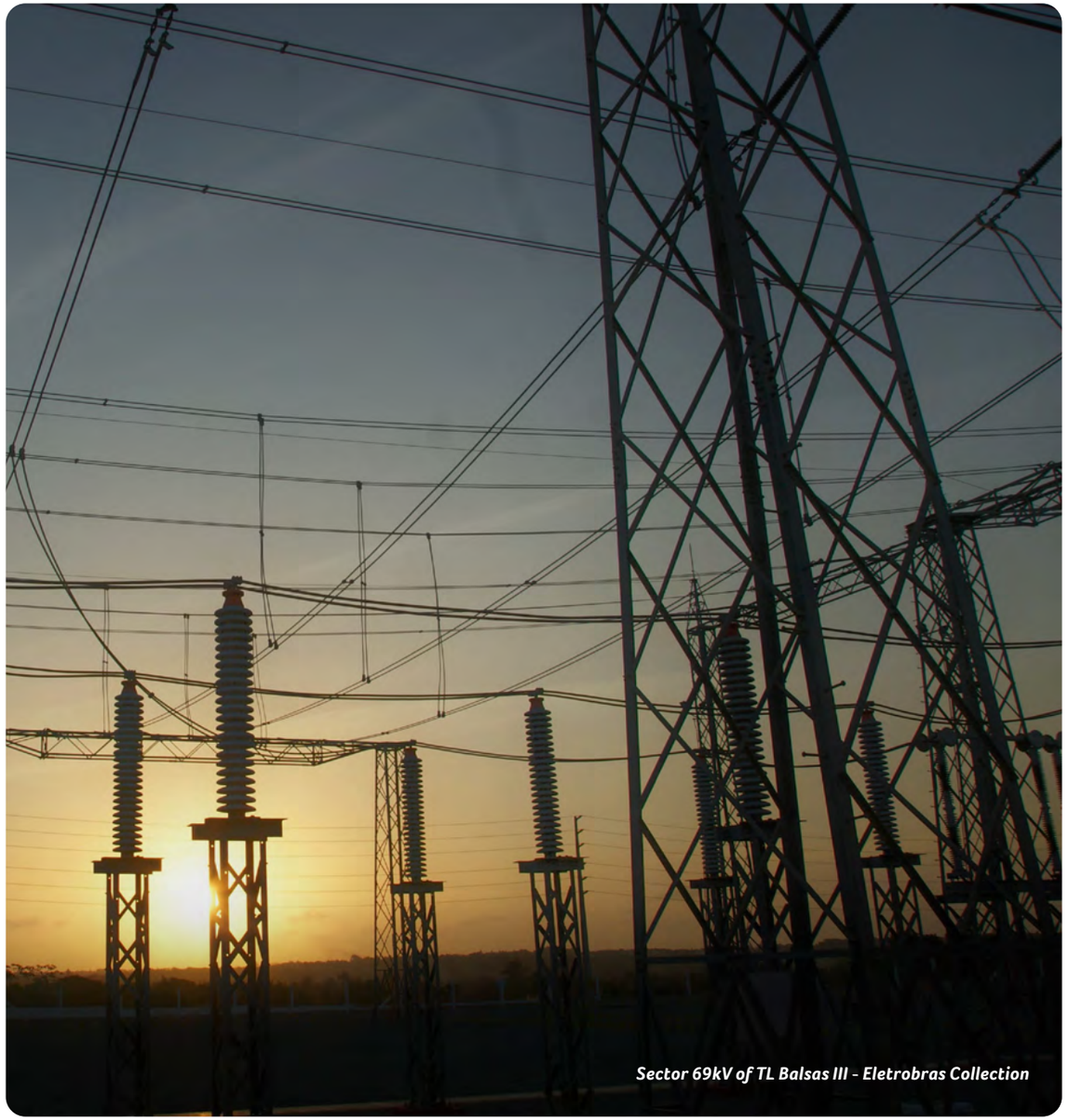
TABLE 4: GHG EMISSIONS BY TYPE OF GAS (SCOPES 1, 2 AND 3) - YEAR 2024

Companies	CO_2	CH_4		N_2O		SF_6		HFCs and PFCs	Total by Company
	tCO_2e	tCO_2e	tgas	tCO_2e	tgas	tCO_2e	tgas	tCO_2e	tCO_2e
Eletrobras CGT Eletrosul	68,810	52	2	29	0.1	19,133	0.8	545	**88,570**
Eletrobras Chesf	150,738	773	26	63	0.2	44,450	2	4,704	**200,727**
Eletrobras Eletronorte	3,437,303	1,820	61	1,640	6	20,680	0.9	3,157	**3,464,599**
Eletrobras Furnas (Operação Sudeste)	415,660	264	9	143	0.5	247	0.01	819	**417,132**
Eletrobras Holding	536,205	18	0.6	10	0.04	0	0	0	**536,233**
SPEs	4,456	16	0.5	22	0.1	0	0	482	**4,976**
TOTAL	**4,613,172**	**2,943**	**98**	**1,906**	**7**	**84,510**	**4**	**9,707**	**4,712,238**

Although CO_2 emissions from burning ethanol and biodiesel are not included in the GHG inventory, as these are deemed as renewable fuels, the methodology used in preparing the inventory recommends that emissions from these fuels are estimated. These estimations are shown in Table 5. The data show a 17% drop in CO_2 emissions from the burning of ethanol and biodiesel biofuels compared to 2023.

Table 5: CO_2 emissions from burning ethanol (hydrous and anhydrous) and biodiesel (B-100)

Companies	CO_2 Emissions (tCO_2e)	
	2023	2024
Eletrobras CGT Eletrosul	676	260
Eletrobras Chesf	1,094	1,186
Eletrobras Eletronorte	509	441
Eletrobras Furnas (Operação Sudeste)	727	402
Eletrobras Holding	12	8
SPEs	-	217
TOTAL	**3,017**	**2,514**



Sector 69kV of TL Balsas III - Eletrobras Collection

Table 6 provides a comparison of total emissions from 2023 and 2024.

Table 6: Eletrobras Group GHG emissions in 2023 and 2024 (tCO_2e)

Scope	2023	2024	Change 2023-2024 (tCO_2)	Change 2023-2024 (%)
Scope 1	3,999,341	2,332,558	-1,666,783	-41.7
Scope 2	289,121	460,723	171,602	59.4
Scope 3	1,376,948	1,918,957	542,009	39.4
TOTAL	**5,665,409**	**4,712,238**	**-953,171**	**-16.8**

Considering the emissions accounted for in each scope, in 2024 there was a 16.8% reduction in total emissions.

Considering each of the scopes separately, there was a 41.7% reduction in Scope 1 emissions, mostly related to divestment in coal-fired generation with the sale of UTE Candiota.

The increase in scope 2 emissions was related to transmission losses, which can be explained by the integration of Triangulo Mineiro Transmissora into the Eletrobras transmission system and the 40% increase in the GRID Emission Factor compared to 2023.

For scope 3, the increase in emissions is related to the inclusion of categories 1 and 2 and the expansion of category 3 in the 2024 base year inventory.

Table 7 shows the Eletrobras Group's historical emissions over the previous five years.

Table 7: History of Eletrobras Group Greenhouse Gas Emissions (tCO_2e)

Company	2020	2021	2022	2023	2024
Eletrobras Amazonas GT*	3,599,737	-	-	-	-
Eletrobras Cepel**	526	1,363	-	-	-
Eletrobras CGT Eletrosul	1,393,508	2,692,933	1,914,023	2,056,030	88,570
Eletrobras Chesf	114,012	269,337	89,304	88,809	200,727
Eletrobras Eletronorte	69,574	3,859,708	3,073,517	3,303,271	3,464,599
Eletrobras Eletronuclear**	6,603	6,226	-	-	-
Eletrobras Furnas (Operação Sudeste)	833,185	1,449,269	562,838	216,586	417,132
Eletrobras Holding	414	552	378	712	536,233
Itaipu Binacional**	28,651	9,262	-	-	-
SPEs	-	-	-	-	4,976
TOTAL	**6,046,210**	**8,288,650**	**5,640,060**	**5,665,409**	**4,712,238**

** Eletrobras Amazonas Energia was merged into Eletrobras Eletronorte in 2021.*
*** Following our privatization in 2022, Eletronuclear, Itaipu Binacional and Cepel are no longer part of the Eletrobras Group.*

4. GHG Generation and Emission Intensity Matrix

Eletrobras Group's net electricity output in 117,426,418 MWh, considering the portion of the Special Purpose Entities (SPEs) over which Eletrobras gained operational control in 2024. The output of each company is shown in Table 8.

This inventory also reports emissions intensity values calculated for total scope 1, 2 and 3 emissions, and for scope 1 and 2 emissions not including losses, both per unit of electricity output and per unit of Net Operating Revenue. Net output and net operating revenue data for SPEs are not included in the emissions intensity calculation in this document.

Table 8: Net energy output by Eletrobras Group company in 2024

Eletrobras Companies	Net energy output (MWh)
Eletrobras CGT Eletrosul	1,503,642
Eletrobras Chesf	29,499,510
Eletrobras Eletronorte	35,020,458
Eletrobras Furnas (Operação Sudeste)	27,843,457
SPEs	23,559,351
TOTAL	**117,426,418**

Table 9: Greenhouse Gas Emissions Intensity for 2023 and 2024

Emissions intensity (scopes 1, 2 and 3)	2023	2024
Per unit of net electricity produced (tCO_2/MWh)	0.056	0.040
Per unit of net operating revenue (tCO_2/ROL)*	0.152	0.117

Emissions intensity (scope 1 and 2, ex-losses)	2023	2024
Per unit of net electricity produced (tCO_2/MWh)	0.039	0.020
Per unit of net operating revenue (tCO_2/ROL)*	0.108	0.058

** R$ thousand.*

Casa Nova Wind Farm - Photo: Túlio Trajano

Table 10: Eletrobras Group GHG Emissions Intensity in 2024

Companies	Emissions intensity (scope 1, 2 and 3)	Emissions intensity (scope 1 and 2, ex-losses)
	tCO_2/MWh	tCO_2/MWh
Eletrobras CGT Eletrosul	0.059	0.014
Eletrobras Chesf	0.007	0.002
Eletrobras Eletronorte	0.099	0.058
Eletrobras Furnas (Operação Sudeste)	0.015	0.008
SPEs	0.0002	0.0001

5. Air Pollutants (NO_x, SO_x and Particulate Matter)

Eletrobras Group companies also measure the emissions of other air pollutants, including sulfur oxides (SO_x), nitrogen oxides (NO_x) and particulate matter, in power plants in operation throughout the year.

The Group's SO_x, NO_x and particulate matter emissions in 2023 and 2024 are shown in Table 11.

Table 11: Sulfur and nitrogen oxide and particulate emissions*

Company	Sulfur oxides SO_x (t)		Nitrogen oxides NO_x (t)		Particulate matter PM10 (t)	
	2023	2024	2023	2024	2023	2024
Eletrobras CGT Eletrosul	11,800	N.A	3,492	N.A	739	N.A
Eletrobras Chesf	N.A	N.A	N.A	N.A	N.A	N.A
Eletrobras Eletronorte	2,651	82	15,873	11,566	0	0
Eletrobras Furnas (Operação Sudeste)	0	0	0	0	0	0
Eletrobras Holding	N.A	N.A	N.A	N.A	N.A	N.A
SPEs	-	N.A	-	N.A	-	N.A
TOTAL	**14,451**	**82**	**19,365**	**11,566**	**739**	**0**

Key: N.A – Not Applicable.
** No information was reported from UTE Santa Cruz due to the unavailability of information.*

In 2024, SO_x, NO_x and PM emissions fell significantly compared to 2023. This reduction is closely related to the elimination of UTE Candiota, a coal-fired thermoelectric plant, from the Eletrobras portfolio, which had a major impact on the generation of particulate matter.

6. Montreal Protocol Gases

The Eletrobras Group estimates emissions of ozone-depleting substances listed in the Montreal Protocol.

Total emissions have been calculated as the sum of three sources of emissions of refrigerant gases from air conditioning equipment: leakage during installation, leakage during servicing, and leakage during disposal.

Emissions of Montreal Protocol gases are shown in Table 12.

Table 12: Emissions of Montreal Protocol Ozone - Depleting Gases

Company	Gases (t) 2023				Gases (t) 2024				
	R-22	R-141b	HFC-134a	R407c	R-22	R-141b	HFC-134a	HFC-152a	HFC-152a
Eletrobras CGT Eletrosul	0.64	0	0	0	0.12	0	0.14	0.14	0
Eletrobras Chesf	1.10	0.01	0.05	0	1.47	0.07	0.85	0.85	1.11
Eletrobras Eletronorte	0.10	0	0	0.03	0.66	0.07	0.82	0.82	0.01
Eletrobras Furnas (Operação Sudeste)	0.24	0	0	0	0.54	0.19	0.21	0.21	0
Eletrobras Holding	0.04	0	0	0	N.A	N.A	N.A	N.A	N.A
SPEs	-	-	-	-	0.14	0	0.10	0.10	0.07
TOTAL	**2.13**	**0.01**	**0.05**	**0.03**	**2.93**	**0.32**	**2.12**	**2.12**	**1.19**

7. Energy Consumption

In 2024, Eletrobras Group consumed 20,362,028 MWh, a reduction of 24% compared to the previous year. Fuel consumption in MWh totaled 17,905,350 MWh, of which 11,065,821 MWh corresponded to direct consumption (Scope 1) and 6,839,534 MWh to indirect consumption (Scope 3). Electricity consumption (Scope 2) corresponded to 2,456,673 MWh.

Out of this total, 2,324,819 MWh corresponds to self-consumption of energy from generation. Table 13 shows energy consumption data in 2023 and 2024.

Table 13: Energy consumption by type and scope

Energy consumption (MWh)	2023			2024		
	Scope 1	Scope 2	Scope 3	Scope 1	Scope 2	Scope 3
Consumption of renewable fuels	10,498	-	1,357	9,487		381
Consumption of fossil fuels	15,418,948	-	6,796,069	11,056,334		6,839,153
Consumption of renewable electricity - purchased	-	231,604	-	-	25,767	-
Consumption of non-renewable electricity - purchased	-	28,839	-	-	2,548	-
Consumption of renewable electricity - Self-consumption from generation	-	4,097,108	-	-	2,198,312	-
Consumption of non-renewable electricity - Self-consumption from generation	-	296,983	-	-	126,508	-
Electricity - isolated systems	-	-	-	-	163	-
Electricity - transformer removal in substations	-	-	-	-	99,932	-
Electricity - renewable sources in the ACL	-	-	-	-	3,443	-
TOTAL	**26,881,407**			**20,362,028**		

8. Renewable Energy Certificates

Renewable Energy Certificates (RECs) are certificates of proof that a certain amount of electricity has been produced from a renewable source. Each REC is proof that 1 MWh of renewable electricity has been generated and injected into the grid. The REC market was first introduced in Brazil in 2011, and has since grown exponentially, especially following the launch of the I-REC Service — a global electricity environmental attribute tracking system — and the changes introduced in the Brazilian GHG Protocol Program, which now accepts RECs as GHG offsets.

Identifying the business opportunity associated with the assignment of this right to use the environmental attribute of electricity, the companies Eletrobras Chesf, Eletrobras CGT Eletrosul, Eletrobras Eletronorte, and Eletrobras Furnas (Operação Sudeste) certified power plants with Instituto Totum, and thus were able to start trading I-REC standard certificates from 2020.

In June 2021, Eletrobras Furnas (Operação Sudeste) launched a proprietary Platform for issuing RECFY Certificates, assured by independent auditors, in order to diversify its portfolio of decarbonization solutions. It is worth noting that the company has retained its certification under the I-REC Standard but has included other non- I-REC-certified plants on its proprietary platform.

Currently, Eletrobras Chesf has registered 98.7% of the installed capacity of its generating park for the issuance of I-RECs. Eletrobras Eletronorte has registered the Tucuruí Hydroelectric Power Plant, Eletrobras CGT Eletrosul has registered Wind Farms Cerro Chato I, II and III, and Eletrobras Furnas (Operação Sudeste) has registered the Serra da Mesa and Itumbiara Hydroelectric Power Plants and the Fortim Wind Complex. In addition, Eletrobras Furnas (Operação Sudeste) has qualified the Mascarenhas de Moraes and Simplício/Anta Hydroelectric Power Plants for the issuance of RECFY.

In 2024, six new plants were registered to obtain RECFY: Luiz Carlos Barreto de Carvalho HPP by Eletrobras Furnas (Operação Sudeste); Luiz Gonzaga HPP by Eletrobras Chesf; São Domingos HPP, João Borges HPP and Barra do Rio Chapéu HPP by Eletrobras CGT Eletrosul and Samuel HPP by Eletrobras Eletronorte.

HPP São Domingos *- Luciano Martinhago*

8.1. Scope 2 Emissions Offsets

Renewable energy certificates have become an important tool for managing scope 2 emissions. As presented in Table 14, Eletrobras Group companies have been offsetting their emissions related to energy consumption and transmission losses since 2021 using I-RECs and RECFYs from their operations.

Table 14: History of scope 2 emissions offset – energy consumption and transmission losses

Energy consumption (MWh)	2021 (%)		2022 (%)		2023 (%)		2024 (%)	
	Energy consumption	Losses	Energy consumption	Losses	Energy consumption	Losses	Energy consumption	Losses
Eletrobras CGT Eletrosul	0	0	100	0	0	0	100	32
Eletrobras Chesf	100	100	100	100	0	40	100	100
Eletrobras Eletronorte	0	0	100	100	0	40	100	64
Eletrobras Furnas (Operação Sudeste)	100	8	100	20	0	75	100	100
Eletrobras Holding	100	-	100	-	0	-	100	-
SPEs	-	-	-	-	-	-	0	0
TOTAL	**31%**		**47%**		**48.6%**		**85%**	

9. Estimated GHG Emissions and Removals as a Result Of Activities Causing Land-Use Change

To determine net greenhouse gas emissions after accounting for emissions offsets, we estimated emissions and removals as a result of Eletrobras Group activities causing land-use change.

Planting and vegetation suppression data used in the calculations of emissions and removals were obtained from the environmental module of the IGS System.

CO_2 Emissions

CO_2 emissions from activities causing land-use change at Eletrobras Group are those caused by clearing vegetation. To this end, the data collected from Clearing Permits obtained by some Group companies during 2024 were used as evidence. The information on the suppressed vegetation includes its area and its characterization in terms of phytophysiognomy. The amount of carbon emissions is calculated based on the "total carbon stock" values reported in the Third National Communication (MCTI, 2016).

CO_2 Removals

CO_2 removals from activities causing land-use change are those as a result of planting seedlings within the scope of various programs developed by companies, such as disturbed land rehabilitation programs and the development of riparian buffers around hydroelectric reservoirs. Data on planted area, the types of trees planted and regional climate were used in the calculations. Finally, an average carbon stock value to be reached over a 20-year time horizon and a linear growth rate for vegetation were assumed.

Results are shown in Table 15.

Seed Bank and Germplasm Island - Eletrobras Collection

Table 15: CO_2 Emissions x Removals in 2024

Company	Emission (tCO_2e)	Removal (tCO_2e)	Net Emissions (tCO_2e)	Net Result
Eletrobras CGT Eletrosul	12,917	560	12,356	Emission
Eletrobras Chesf	0	39,766	-39,766	Removal
Eletrobras Eletronorte	0	51,882	-51,882	Removal
Eletrobras Furnas (Operação Sudeste)	1,419	42,255	-40,836	Removal
SPEs	0	8,313	-8,313	Removal
TOTAL	**14,336**	**142,782**	**-128,446**	**Removal**

10. Science Based Target Initiative - SBTi

In 2023, Eletrobras made a commitment to be Net Zero by 2030. In 2024, the company presented its targets for evaluation by the Science Based Target (table 16).

In February 2025, Eletrobras had its short- and long-term science-based emissions reduction targets approved by the Science Based Target Initiative - SBTi. SBTi also approved Eletrobras' goal of being Net Zero by 2030, which reinforces our commitment to contributing to the transition to a low-carbon, sustainable and green economy.

Table 16: Science Based Targets - SBTi

Scope	Base Year	Type	Indicator	Target	
				Short Term	Long term
1	2023	Relative	tCO_2/MWh	Reduce energy generation emissions by 76% by 2029.	Reduce energy generation emissions by 80% by 2030.
1+2		Absolute	tCO_2	Reduce Scope 1 (except power generation) and Scope 2 emissions by 50% by 2029.	Reduce Scope 1 (except power generation) and Scope 2 emissions by 90% by 2030.
1+3		Relative	tCO_2/MWh	Reduce 80% of emissions related to fuels and energy-related activities, covering all energy sold, by 2029.	Reduce 85% of emissions related to fuels and energy-related activities, covering all energy sold, by 2030.
3		Absolute	tCO_2	Reduce 40% of emissions (except for fuels and energy-related activities) by 2029.	Reduce 90% of emissions (except for fuels and energy-related activities) by 2030.

Eletrobras' strategy to achieve Net Zero by 2030 includes:

- Divestment in thermoelectric generation and expansion of renewable generation.
- Investing in innovation to access new renewable energy markets.
- Engaging suppliers and adopting emissions-related criteria for contracting.
- Decarbonization solutions for suppliers and customers.
- Fleet electrification/hybridization.
- Use of renewable energy certificates for Scope 2 emissions.
- Investment in reforestation projects to offset residual emissions.

TL Mameleiro 2 - Povo Novo - Reserva do Taim - Lagoa Mirim - Eletrobras Collection

11. Final Considerations

HPP Tucuruí *- Photo: Publicity*

This document consolidates the report for society on greenhouse gas emissions and removals in the generation and transmission activities of Eletrobras Group in 2024, as well as the historical evolution of this data. The performance of Eletrobras Group in relation to the climate change issue is monitored through indicators, goals, and projects, directly by the Board of Directors.

Reinforcing our commitment to a continuous process of monitoring and reducing our emissions and establishing management strategies that contribute to combating climate change, we made a commitment in 2023 to have science-based targets and be Net Zero by 2030. In 2025 our targets were approved by the Science Based Target Initiative.

Our decarbonization plan is based on the divestment in thermal generation assets, the expansion of its portfolio in renewable generation, the reduction of scope 2 emissions with renewable energy certificates from our operations and the offsetting of its residual emissions with carbon credits from reforestation actions, which also contributes to our strategy of expanding biodiversity conservation actions.

12. References

ELETROBRAS, 2021. Eletrobras Group Greenhouse Gas Inventory – year 2020.

ELETROBRAS, 2022. Eletrobras Group Greenhouse Gas Inventory – year 2021.

ELETROBRAS, 2023. Eletrobras Group Greenhouse Gas Inventory – year 2022.

ELETROBRAS, 2025. 2024 Eletrobras Annual Report.

ENERGY RESEARCH COMPANY - EPE, 2024 - National Energy Balance base year 2023.

GHG Protocol. Specifications of the Brazilian GHG Protocol Program: Accounting, Quantification and Publication of Corporate Greenhouse Gas Emissions Inventories, 2nd edition.

IPCC, 2006. Guidelines for National Greenhouse Gas Inventories. Volume 2: Energy. International Panel for Climate Change.

IPCC, 2006. Guidelines for National Greenhouse Gas Inventories. Volume 5: Waste. International Panel for Climate Change.

IPCC, 2013. Fifth Assessment Report - WGPI.

Kotz, M., Levermann, A. & Wenz, L. The economic commitment of climate change. Nature 628, 551–557 (2024).

MCTIC, 2024. Average emission factors for the national interconnected system.

WRI, 2004. The Greenhouse Gas Protocol - A Corporate Accounting and Reporting Standard. World Resources Institute (WRI). World Business Council for Sustainable Development (WBCSD). Revised Edition.

13. Appendix

13.1. Independent Auditors' Assurance Report

(A free translation of the original in Portuguese)

Independent auditor's limited assurance report on the 2024 Greenhouse Gas Emissions Inventory Report

Independent auditor's limited assurance report on the 2024 Greenhouse Gas Emissions Inventory Report

To the Shareholders and Management
Centrais Elétricas Brasileiras S.A. - Eletrobras
Rio de Janeiro - RJ

Introduction

1. We have been engaged by Centrais Elétricas Brasileiras S.A. - Eletrobras (Centrais Elétricas Brasileiras S.A. - Eletrobras or "Company") to present our limited assurance report on the information included in Tables 1 to 10, Table 13, Table 14, and Table 15 - pages 9 to 15, 18, 20, and 22 of the 2024 Greenhouse Gas Emissions Inventory Report, hereinafter referred to as "2024 GHG Inventory", for the year ended December 31, 2024. This report includes, among other information, a description of the procedures for addressing the significant quantifications, criteria and methodology for the preparation of the 2024 GHG Inventory, in addition to the organizational and operational limits related to the Company's activities.

2. This limited assurance report does not cover prior-period information, or any other information disclosed together with the 2024 GHG Inventory, including any images, audio files or videos.

Responsibilities of the Management of Centrais Elétricas Brasileiras S.A. - Eletrobras

3. The Company's Management is responsible for the preparation and fair presentation of the information included in the "2024 GHG Inventory", in accordance with the criteria defined in paragraph 4 and the limits addressed in paragraph 5 below, and for such internal control as it determines is necessary to prepare information free from material misstatement, whether due to fraud or error.

4. The Management of Centrais Elétricas Brasileiras S.A. - Eletrobras is responsible for:

   a. selecting or establishing adequate criteria for the preparation and presentation of the information included in the 2024 GHG Inventory;

   b. preparing the information in accordance with the Specifications of the Brazilian GHG Protocol Program: Accounting, Quantification and Publication of Corporate Greenhouse Gas Emission Inventories. 2nd edition and its technical standards; in accordance with ABNT NBR ISO 14064-1/2022: Part 1-*"Especificação e orientação a organizações para quantificação e elaboração de relatórios de emissões e remoções de gases de efeito estufa"*.

   c. designing, implementing and maintaining internal controls over the significant information used in the preparation of the 2024 GHG Inventory, so that it is free from material misstatement, whether due to fraud or error.

5. As established by the aforementioned criteria, an organizational limit was defined for the 2024 GHG Inventory, to reflect the operational control approach (adjust if another type of control is used). The operational limits include emission sources from scopes 1 and 2 according to the Brazilian GHG Protocol Program, as well as the following scope 3 emission categories: Goods and services acquired, Capital goods, Activity related to fuel and electricity not included in Scopes 1 and 2, Transportation and distribution (upstream), Waste generated in operations, Business travels and Commuting.

Limitations to the preparation and presentation of information

6. In preparing and presenting the calculations of greenhouse gas (GHG) emissions contained in the 2024 GHG Inventory, Management followed the definitions in the Specifications of the Brazilian GHG Protocol Program; therefore, the information presented in the GHG Emissions Inventory is not designed or intended to provide assurance with respect to the compliance with social or economic laws and regulations.

7. The absence of a comprehensive set of established practices on which to base the evaluation and measurement of non-financial information, allows for the use of different, but acceptable, evaluation and measurement techniques, which may affect comparability between entities and over time.

Our independence and quality control

8. We comply with the independence and other ethical requirements specified by the Federal Accounting Council (CFC) in NBCs PG 100 and 200 and NBC PA 291, which are based on the principles of integrity, objectivity and professional competence, including confidentiality and professional standards and behavior.

9. We apply Brazilian and international quality control standards pursuant to NBC PA 01, as issued by the CFC, and thus maintain an appropriate quality control system that includes policies and procedures related to compliance with ethical requirements, professional standards, legal requirements and regulatory requirements.

Our responsibility

10. Our responsibility is to express a conclusion on the information included in the Company's 2024 GHG Inventory, based on our limited assurance engagement carried out in accordance with the Technical Communication CTO 01/12, "Issuance of an Assurance Report related to Sustainability and Social Responsibility", as issued by the CFC, based on the Brazilian standards NBC TO 3000, "Assurance Engagements Other than Audits or Reviews", and NBC TO 3410 "Assurance Engagements on Greenhouse Gas Emissions and Climate Change Statements" as issued by the CFC, which are equivalent to international standards, ISAE 3000 "Assurance Engagements Other than Audits or Reviews of Historical Financial Information" and ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements", both issued by the International Auditing and Assurance Standards Board (IAASB), applicable to non-financial information.

11. The aforementioned standards require that the work be planned and performed to obtain limited assurance that the information included in the 2024 GHG Inventory, taken as a whole, is free from misstatement, whether due to fraud or error, and to issue a limited assurance report that includes our conclusion.

12. A limited assurance engagement conducted in accordance with the Brazilian standards NBC TO 3000 and NBC TO 3410 mainly consists of making inquiries of Management and other professionals of the Company involved in the preparation of the information, as well as applying analytical procedures to obtain evidence that allows us to issue a limited assurance conclusion on the information, taken as a whole. A limited assurance engagement also requires the performance of additional procedures when the independent auditor becomes aware of matters that lead him to believe that the information taken as a whole might present significant misstatements.

13. As part of a limited assurance engagement in accordance with NBC TO 3000 (ISAE 3000) and NBC TO 3410 (ISAE 3410), we exercise professional judgment and maintain professional skepticism during our work. We also:

a. determine the Company's appropriate application, in the circumstances, of Specifications of the Brazilian GHG Protocol Program, as a basis of preparation of the 2024 GHG Emissions Inventory.

b. perform risk assessment procedures, including obtaining an understanding of relevant internal controls to identify areas where material misstatements may arise, whether due to fraud or error, but not for the purpose of expressing a conclusion on the effectiveness of the Company's internal controls; and.

c. design and perform procedures responsive to cases when it is considered probable that material misstatements in information on GHG emissions may arise. The risk of not detecting a material misstatement resulting from fraud is higher than that arising from errors, since fraud may involve collusion, forgery, intentional omissions or the override of internal controls.

Summary of the procedures performed

14. The procedures we selected are based on our understanding of the process for the compilation and presentation of the information included in the 2024 GHG Inventory, other such circumstances affecting the engagement and our analysis of the areas in which significant misstatements may exist. The procedures comprised:

a. planning the work, taking into consideration the criteria and limits described above, considering the materiality and the volume of quantitative and qualitative information and the operating and internal control systems used to extract information as presented in the 2024 GHG Inventory;

b. understanding the calculation methodology and the procedures adopted for the compilation of information on the emissions through interviews with the managers charged with the preparation of the information;

c. technical visits and video conference with the head office and other operating units considered significant to interview the members of Management and collect data and information; and

d. applying analytical procedures and substantive testing, as applicable, to quantitative information and making inquiries regarding the qualitative information and its correlation with the information included in the 2024 GHG Inventory.

15. Our procedures did not include assessing the adequacy of the design or operating effectiveness of the controls, testing the data on which the estimates are based or separately developing our own estimate to compare with the estimate of Centrais Elétricas Brasileiras S.A. - Eletrobras.

Basis for conclusion

16. We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our limited assurance conclusion.

Scope and limitations

17. The procedures applied in a limited assurance engagement are substantially less detailed than those applied in a reasonable assurance engagement, the objective of which is the issuance of an opinion on the information included in the 2024 GHG Inventory. Consequently, we were unable to obtain reasonable assurance that we would become aware of all significant matters that might be identified in a reasonable assurance engagement, the objective of which is the issuance of an opinion. Had we performed an engagement with the objective of issuing an opinion, we might have identified other matters and possible misstatements in the information included in the 2024 GHG Inventory. Therefore, we do not express an opinion on this information.

18. Non-financial data are subject to more inherent limitations than financial data, due to the nature and diversity of the methods used to determine, calculate and estimate these data. Qualitative interpretations of the materiality, relevance and accuracy of the data are subject to individual assumptions and judgments. Furthermore, we did not carry out any work on the data reported for prior periods, nor future projections and goals.

19. Information and data on sustainability actions and activities, general information and views related to the climate change subject, description of management activities of the process of preparing the 2024 GHG Inventory, and description of operational activities, which are not the basis for the 2024 GHG Inventory, were not part of the scope of the work performed and, therefore, have not been included in our limited assurance engagement.

Conclusion

20. Based on the procedures performed, described herein, no matter has come to our attention that causes us to believe that the information included in the 2024 Greenhouse Gas Emissions Inventory Report of Centrais Elétricas Brasileiras S.A. - Eletrobras, for the year ended December 31, 2024, has not been fairly presented, in all material respects, in accordance with the criteria defined in paragraph 4 and limits defined in paragraph 5 above.

Other matters - Restriction on use and distribution

21. This report was prepared for the use of Centrais Elétricas Brasileiras S.A. - Eletrobras and may be presented or distributed to third parties, as long as they are familiar with the object and criteria applicable to this assurance engagement, considering its specific purpose described in the first paragraph of this report.

22. Any party other than Centrais Elétricas Brasileiras S.A. - Eletrobras who obtains access to this report, or a copy thereof, and relies on the information contained therein does so at their own risk. We do not accept or assume any responsibility and deny any liability to any party other than Centrais Elétricas Brasileiras S.A. - Eletrobras for our engagement, the assurance report or our conclusions.

São Paulo, May, 29, 2025

PricewaterhouseCoopers Auditores Independentes Ltda.
CRC 2SP000160/O-5

Eliane Kihara
Contadora CRC 1SP212496/O-5

13.2. Renewable Energy Certificates

RENEWABLE ENERGY CERTIFICATE

Renewable Energy Certificate from the generator Centrais Elétricas Brasileiras S.A. - ELETROBRAS. This redemption declaration has been produced on behalf of the beneficiary so that they can offset their greenhouse gas emissions (scope 2, indirect emissions from electricity consumption).

CERTIFICATE SUMMARY

DATE	04/17/2025	SOLAR TOTAL	0	ISSUER	ELETROBRAS CHESF
HYDRO TOTAL	2,431,345	WIND TOTAL	0	BENEFICIARY	COMPANHIA HIDRO ELÉTRICA DO SÃO FRANCISCO – CHESF

DETAILS OF ELECTRIC ENERGY CONSUMPTION

CONSUMER UNIT ADDRESS	RUA DELMIRO GOUVEIA, 333, SAN MARTIN, CEP: 50761-901, RECIFE/PE
CONSUMPTION PERIOD	JAN-2024 - DEC-2024

PROJECT DETAILS

CODE	DEVICE	COUNTRY	LOCAL	SOURCE	OPERATION
UHE.PH.PE.001174	UHE Luiz Gonzaga	BRASIL	9°06'00.0"S 38°19'00.0"W	HIDROELÉTRICA	13/06/1988

CERTIFICATE DETAILS

ID CREATION	ISSUE	QTD MWh	ID DATE	GENERATION
215c78aa-5f97-4a5b-b177-89d54af1790c	9df2d76c6becdec0f66084b1144ebff6ea93ffafabf2bf022dc5384f07c21fbc	354,888	2025-04-10	JAN-2024
575023aa-b5ad-4cc4-af65-70b7a499b649	ba804f4bbffe1cb6bb009f545b2e4e531bdf33e83866b5cd2d3772e2cdda9d73	439,704	2025-04-10	MAR-2024
59859a3f-c643-4cb6-948c-4ef7cff6a33b	035d095b47a981cd5e99786485539db93b1e287b8c369632c640ba7b0644d866	409,680	2025-04-10	APR-2024
d89e3e36-9d1a-4483-bf39-cb5015ceebb3	9aedb8554d1ddaa7b42f57d65fe44ee6e6f567ecceefb0917a39e06172691b4c	328,512	2025-04-10	FEB-2024
e5fc43cf-170b-4073-8266-9a733c3f5c67	2bfa0f42bfb6ff89f0cacbc57e5cb3f6cbafe79302df8e71ef1452d8ab5b8480	383,040	2025-04-10	JUN-2024
b14bae02-2f33-41ce-bb25-b86467be3447	8e7cf184d5bc7498d6ed8b7a0096957210274a4d45ed54f6cdee77a2d07d8b6c	378,696	2025-04-10	MAY-2024
5eb9afc4-5525-4484-8bd3-4b1c9496a16f	ab8adb6c17a25959a877dd34e63ca3e1152c2fa44426987dd3a4168126db8ac0	127,618	2025-04-10	JUL-2024
5eb9afc4-5525-4484-8bd3-4b1c9496a16f	d213653230eeee5056183de2548819782ac0f47876a9beca7b73a2a65fd8393f	9,207	2025-04-15	JUL-2024

The Certificates redeemed here declare consumption in the country for the year referred to in this report. RECFYs redeemed on behalf of the beneficiary may not be assigned to third parties, and the Generator undertakes never to issue another Renewable Energy Certificate in association with these MWh (1 MWh = 1 RECFY).

The RECFY Platform was validated by external auditors in accordance with the precepts of the GHG Protocol Program and NBR ISO 14.064-2:2007

* Certificate Guaranteed by Blockchain Technology developed by Eletrobras. powered by corda

Read the QR Code on the side and validate the authenticity of this Certificate on the Certificate Issuer's website.

RENEWABLE ENERGY CERTIFICATE

Renewable Energy Certificate from the generator Centrais Elétricas Brasileiras S.A. - ELETROBRAS. This redemption declaration has been produced on behalf of the beneficiary so that they can offset their greenhouse gas emissions (scope 2, indirect emissions from electricity consumption).

CERTIFICATE SUMMARY

DATE	04/15/2025	SOLAR TOTAL	0	ISSUER	CENTRAIS ELÉTRICAS BRASILEIRAS S.A.
HYDRO TOTAL	2,388	WIND TOTAL	0	BENEFICIARY	CENTRAIS ELÉTRICAS BRASILEIRAS S.A.

DETAILS OF ELECTRIC ENERGY CONSUMPTION

CONSUMER UNIT ADDRESS	RUA DA QUITANDA, N.º 196, CENTRO, NA CIDADE E ESTADO DO RIO DE JANEIRO, CEP: 20091-005
CONSUMPTION PERIOD	JAN-2024 - DEC-2024

PROJECT DETAILS

CODE	DEVICE	COUNTRY	LOCAL	SOURCE	OPERATION
UHE.PH.MG.002038	UHE Marechal Mascarenhas de Moraes	BRASIL	20°17'10.2"S 47°03'52.3"W	HIDROELÉTRICA	01/04/1957

CERTIFICATE DETAILS

ID CREATION	ISSUE	QTD MWh	ID DATE	GENERATION
f59defc9-e635-4b78-a1ea-5fee1c3ae628	dbfbc89f0f1e4f90cd22bea5a22bafa4c6b54cb58248e7d0b634857338474628	2,388	2025-04-15	JAN-2024

The Certificates redeemed here declare consumption in the country for the year referred to in this report. RECFYs redeemed on behalf of the beneficiary may not be assigned to third parties, and the Generator undertakes never to issue another Renewable Energy Certificate in association with these MWh (1 MWh = 1 RECFY).

The RECFY Platform was validated by external auditors in accordance with the precepts of the GHG Protocol Program and NBR ISO 14.064-2:2007

* Certificate Guaranteed by Blockchain Technology developed by Eletrobras. powered by corda

Read the QR Code on the side and validate the authenticity of this Certificate on the Certificate Issuer's website.

13.2. Renewable Energy Certificates

RECFY

RENEWABLE ENERGY CERTIFICATE

Eletrobras

Renewable Energy Certificate from the generator Centrais Elétricas Brasileiras S.A. - ELETROBRAS. This redemption declaration has been produced on behalf of the beneficiary so that they can offset their greenhouse gas emissions (scope 2, indirect emissions from electricity consumption).

CERTIFICATE SUMMARY

DATE	04/22/2025	SOLAR TOTAL	0	ISSUER	ELETROBRAS ELETRONORTE
HYDRO TOTAL	621,555	WIND TOTAL	0	BENEFICIARY	ELETROBRAS ELETRONORTE

DETAILS OF ELECTRIC ENERGY CONSUMPTION

CONSUMER UNIT ADDRESS	ED. CENTRO CORPORATIVO PORTINARI - SEPN 504, BLOCO D, - ASA NORTE, BRASÍLIA - DF, 70730-524
CONSUMPTION PERIOD	JAN-2024 - DEC-2024

PROJECT DETAILS

CODE	DEVICE	COUNTRY	LOCAL	SOURCE	OPERATION
UHE.PH.RO.002687	UHE Samuel	BRASIL	8°45'04.0"S 63°27'14.0"W	HIDROELÉTRICA	24/07/1989

CERTIFICATE DETAILS

ID CREATION	ISSUE	QTD MWh	ID DATE	GENERATION
3ad6f7e1-3fe6-4519-a033-a56e9298e744	e77c56bcfdbd00e5ae4000527a7dde8661abd2e5b1dbf2c5fe71029fd7e6db80	8,961	2025-04-15	JAN-2024
3ad6f7e1-3fe6-4519-a033-a56e9298e744	23430fb32e194293d6d29c5e254af1f9476f31e9689dae0d82fdae782fdabb4b	28,983	2025-04-22	JAN-2024
28c618ee-442e-4546-b162-29c5ee9411a1	b4c6ceb809816fd4883d5400791733410583e8b5b27da9f12e2dfd2de352dc2c	113,040	2025-04-22	APR-2024
9110e262-7594-418c-9f21-6d0b9d59411f	848c414e61c98cbc26d36dcb0d45f73cbd3d3f3f90d73f90f6c746a15ab7abbb	59,160	2025-04-22	FEB-2024
728fb400-837c-4665-ac49-ec34054494cd	216ec3feccb721ec15f67aa250f7f2ac2f48341f33ab5ff8f0ce1ef857b19324	79,608	2025-04-22	MAY-2024
0d874268-fe82-435a-882b-9b35944bb46c	2892fe0e442bee21ac10859e8be02cf2cbe9e7181e9d5a7ea7f305c364b91d27	60,264	2025-04-22	MAR-2024
5a7130da-8452-4637-8027-211dbdda74ce	73bcf769becd58ae85c5c572c1569a98683ea898a99d48aec31e009f913da681	43,920	2025-04-22	JUN-2024
d3cb6dbf-bac8-4556-89a6-dd4a321858ee	855ea87b55fb20f75b70a6952109e2d8eb2fc9e74a81d7c54ac509305e5196ff	36,456	2025-04-22	AUG-2024
3a202f20-aefd-4e35-926c-51747c630f95	4b33f3e490d393e4107d2ad1c645b521d8a6b37bd291a34da01264fa2b6cedad	49,848	2025-04-22	JUL-2024
f3aae627-a405-4d0c-985b-26f902c46e9c	c4fa7d938cb8ba2b71559156edcfb9dae6ff8613c8855d40b3c9b4b0724e1c89	33,414	2025-04-22	OCT-2024

The Certificates redeemed here declare consumption in the country for the year referred to in this report. RECFYs redeemed on behalf of the beneficiary may not be assigned to third parties, and the Generator undertakes never to issue another Renewable Energy Certificate in association with these MWh (1 MWh = 1 RECFY).

The RECFY Platform was validated by external auditors in accordance with the precepts of the GHG Protocol Program and NBR ISO 14.064-2:2007

* Certificate Guaranteed by Blockchain Technology developed by Eletrobras. powered by corda

Read the QR Code on the side and validate the authenticity of this Certificate on the Certificate Issuer's website.

RECFY

RENEWABLE ENERGY CERTIFICATE

Eletrobras

Renewable Energy Certificate from the generator Centrais Elétricas Brasileiras S.A. - ELETROBRAS. This redemption declaration has been produced on behalf of the beneficiary so that they can offset their greenhouse gas emissions (scope 2, indirect emissions from electricity consumption).

CERTIFICATE SUMMARY

DATE	04/28/2025	SOLAR TOTAL	0	ISSUER	CENTRAIS ELÉTRICAS BRASILEIRAS S.A.
HYDRO TOTAL	3,458,826	WIND TOTAL	0	BENEFICIARY	FURNAS CENTRAIS ELÉTRICAS S. A.

DETAILS OF ELECTRIC ENERGY CONSUMPTION

CONSUMER UNIT ADDRESS	AV. GRAÇA ARANHA, 26 - CENTRO - RIO DE JANEIRO - RJ - 20030-000
CONSUMPTION PERIOD	JAN-2024 - DEC-2024

PROJECT DETAILS

CODE	DEVICE	COUNTRY	LOCAL	SOURCE	OPERATION
UHE.PH.SP.000917	UHE Luiz Carlos Barreto de Carvalho	BRASIL	20°09'19.5"S 47°16'56.6"W	HIDROELÉTRICA	01/03/1969
UHE.PH.MG.002038	UHE Marechal Mascarenhas de Moraes	BRASIL	20°17'10.2"S 47°03'52.3"W	HIDROELÉTRICA	01/04/1957

CERTIFICATE DETAILS

ID CREATION	ISSUE	QTD MWh	ID DATE	GENERATION
5b252a71-f4e8-455d-8b21-3960a452b984	0d20a34905455e28c99318037fe7c9ee9e9ec3349d724c726a679ad16336b50e	309,504	2025-04-10	JAN-2024
c571239e-4343-4a3f-930e-76ebc347215d	e3e75a469b329e99e321d6a37e4fa24f1df735d89cf138b8daf4c83de2a74dd0	242,904	2025-04-10	FEB-2024
4ac1d06c-9098-4be7-b4db-25663c3736a2	07137f1bf4612dab2947af844bb41703abb549f5d9b7af64f821179398d6cb0c	284,952	2025-04-10	MAR-2024
7887d02e-2add-4e91-bf46-cdf1c8f2f8de	6340c80af8f4ef271ffbc2ec68593a3321b8cbb2a00b371f1a8792b07851c6dc	210,960	2025-04-10	JUN-2024
bd127ca0-05a7-457a-973b-0a913300ba13	b29a43331be1333cbebba5b79b8c45a8b39a01aa55aea8980c3038e98e48d02d	158,472	2025-04-10	MAY-2024
179eff10-6673-4886-a152-cee9611ed81d	5750005907b120076a6ed0f6ba0447a229566960b679cafdc9274851c6c1e8ed	221,760	2025-04-10	APR-2024
006d83b1-e531-49c2-83d7-4408d6d71bed	3586f37c067eaed458516f36e0b159535d60a777224449cdcf464272762c7428	214,272	2025-04-10	JUL-2024
a29ef5c6-611d-4734-9b4f-d4ab8e76857b	0644917544ac247f0c20b55fd8ec412ee3224eac6a32f7aad7a0e49b1b428079	298,344	2025-04-10	AUG-2024
e9b2f974-6ced-4b4e-be0c-61e264a2a39a	0575da75e9dbc7e322ae87b2676117a266094e486848c9669f7ae3429bf0a0ff	293,760	2025-04-10	SEP-2024
c961ff33-7f3c-4d54-a3d0-dc3e30eaee51	a713eb9213c303bf0e6af059e5bdc4b7593d59cc72e1dcb3cf31dbaffbc0c9a8	385,456	2025-04-10	OCT-2024

The Certificates redeemed here declare consumption in the country for the year referred to in this report. RECFYs redeemed on behalf of the beneficiary may not be assigned to third parties, and the Generator undertakes never to issue another Renewable Energy Certificate in association with these MWh (1 MWh = 1 RECFY).

The RECFY Platform was validated by external auditors in accordance with the precepts of the GHG Protocol Program and NBR ISO 14.064-2:2007

* Certificate Guaranteed by Blockchain Technology developed by Eletrobras. powered by corda

Read the QR Code on the side and validate the authenticity of this Certificate on the Certificate Issuer's website.

Credits

Climate Strategy and Biodiversity Management

DATA COMPILATION AND PROCESSING

Alexandre Mollica Medeiros – Eletrobras Cepel

PREPARATION

Moara Silva Morasche – Eletrobras

GRAPHIC DESIGN, TRANSLATION AND LAYOUT

Ricca Sustentabilidade