

2020 Greenhouse Gas Emissions Inventory Results

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01	Executive <u>sum</u> mary	Executive Summary
02	Definitions and Concepts ——— Methodologies	The greenhouse gas (GHG) emissions aims to GHG impacts, by recording and disclosing the
03 04	used ———— Inventory	inventory should be used as a basis for the con initiatives related to opportunities for reducin
05	Limits Main Changes in 2020 	Since 2009, B3 quantifies its GHG emission, a include the document in the Brazilian GHG Preinventory, based on data from 2020. The resultas a basis to support B3's carbon management
06	GHG Inventory preparation steps 	The absolute emissions of B3 in 2020 totaled i 363.25 tCO2e for Scope 3 . Scope 1 emissions
07	Results References	the decrease in the amount of refrigerant gase conditioning) of B3 units in 2020. In the case of reduction of 11% and 78%, respectively, when
08		adherence of the home office to approximate covid-19 pandemic. Another factor that contri reduction in the average annual emission fact

The greenhouse gas (GHG) emissions aims to increase the company's transparency and control over its GHG impacts, by recording and disclosing the GHG emissions released by its business activities. The inventory should be used as a basis for the company's Carbon Management practice, which will support initiatives related to opportunities for reducing emissions and enhancing processes.

Since 2009, B3 quantifies its GHG emission, and as of 2010 came to be verified by the third part and include the document in the Brazilian GHG Protocol. In 2021, KPMG assisted B3 in the compilation of its inventory, based on data from 2020. The results of this engagement are set out in this report and will serve as a basis to support B3's carbon management and direct its initiatives.

The absolute emissions of B3 in 2020 totaled in **99.60 tCO2e for Scope 1**, **1,933.73 tCO2e for Scope 2** and **363.25 tCO2e for Scope 3**. Scope 1 emissions showed a reduction of 91% compared to 2019, as a result of the decrease in the amount of refrigerant gases replaced in the HVAC system (heating, ventilation and air conditioning) of B3 units in 2020. In the case of scope 2 emissions and 3 (indirect emissions), there was a reduction of 11% and 78%, respectively, when compared to the previous year. These reductions reflect the adherence of the home office to approximately 90% of employees as of the month of March due to the covid-19 pandemic. Another factor that contributed to the reduction in scope 2 emissions was the 18% reduction in the average annual emission factor of the Brazilian GRID for the year 2020.

B3 has been offsetting the greenhouse gases it cannot reduce, there by making it "carbon neutral". The objectives of these initiatives include identifying, managing and reducing its environmental impact, and contributing to the global effort against climate change and the effects thereof.

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Definitions and Concepts

This Inventory includes the following Greenhouse Gases controlled by the Kyoto Protocol: CO_2 , CH_4 , N_2O , SF_{6} , NF_3 and the HFCs and PFCs families.

The global warming potential (*Global Warming Potential – GWP*) indicates how much a given gas contributes to global warming in relation to the same amount of carbon dioxide, whose potential is set to 1, in a given time interval and is used to calculate the carbon dioxide equivalent (CO2e) of the causing gases greenhouse effect, making them the default unit. In accordance with the Kyoto Protocol decisions, the GWP values of the fourth IPCC report, Fourth Assessment Report – AR4 were adopted. The values can be found in the table below and the complete list on the IPCC website:

Gas	GWP value (2013 to 2019 inventory)
CO _{two}	1
CH ₄	25
N _{two} O	298
SF ₆	22,800
HFCs	124 - 14,800
PFCs	7,390 - 12,200
NF ₃	17,200

01	Executive summary	Methodologies Used
02	Definitions and Concepts	
03	Methodologies used	 The methodologies, scope, calculations and assumptions used in the development of this inventory can be obtained from the Calculation Spreadsheets and collection sheets, which accompany this report.
04	Inventory Limits	The main References used for this inventory are:
05	Main Changes in 2020	 The Greenhouse Gas Protocol - A Corporate Accounting and Reporting Standard - Revised Edition - March 2004 - WRI/WBCSD.
06	GHG Inventory preparation steps 	 2006 IPCC Guidelines for National Greenhouse Gas Inventories (Intergovernmental Panel on Climate Change).
07	Results	 Brazilian GHG Protocol Program - Guide for preparing corporate inventories of greenhouse gas (GHG) emissions – FGV, 2009.
08	References	gas (GHG) ethissions – FGV, 2009.

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tory Limits

- er to determine the organizational limits of its Inventory, the company must choose one of the aches presented by the GHG Protocol: Shareholding or Control (operational or financial).
- ed for **operational control approach**, in which the company is responsible for emissions from s and activities over which it has control. Therefore, if B3 interferes with a certain emission and may deliberately implement its operational measures, such source is considered to be an I part of the company's organizational boundary.
- ventory includes all companies in which B3 has operational control. Therefore, the following were included:
 - 33 SA
 - Banco B3
 - Bolsa de Valores do Rio de Janeiro (BVRJ)
 - Supervisão de Mercados (BSM)
 - 33 Social
 - International offices: London, Chicago and Shanghai

1	Executive summary	Inventory Limits
2	Definitions and Concepts	The concept of Scope, introduced by GHG Protocol, aims to help companies establish the operating limits to be accounted for. The three scopes are defined as follows:
8	Methodologies used	
34	Inventory Limits	• Scope 1 - Direct GHG emissions - responsibility and controlled by the company
5	Main Changes in 2020	Scope 1
6	GHG Inventory preparation steps	• Scope 2 - Indirect GHG emissions - arising from the generation of purchased electricity or steam
7	Results	Scope 2
8	References	 Scope 3 - Other indirect GHG emissions and emissions in the company's value chain that are not controlled by B3.

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01	Executive summary	Inventory	y Limits			
02	Definitions and Concepts	 Considering the guidelines of the Brazilian GHG Protocol Program and the activities of B3, the following Emission Sources were identified and included in this inventory: 				
03	Methodologies used	B3 Emission Sources				
04	Inventory Limits		Stationary combustion	Use of fossil fuels for energy generation and food preparation.		
Œ	Main Changes in 2020	Scope 1	Mobile combustion	Fuel consumption in vehicles operated by the company.		
			Fugitive Emissions	Unintentional release from sources including refrigerant systems and use of fire extinguishers.		
06	GHG Inventory preparation steps	Scope 2	Acquired and consumed energy	Emissions from the generation of purchased electricity, steam, and heating/cooling.		
07	Results		Category 1 - Purchased goods and services	Fuel consumption in vehicles operated by third parties for transporting documents (motorcycle courier)		
~	 References		Category 5 - Waste generated in operations	Treatment of solid waste managed by third parties.		
08		Scope 3	Category 6 - Business Travel	Employee air travel and taxi transportation.		
			Category 7 - Employee Commuting	Commuting home – employees work (commuting).		
			Other Scope 3 emissions (Fugitive)	Unintentional release from refrigerant systems controlled by third parties.		

otocol Program and the activities of B3, the luded in this inventory:

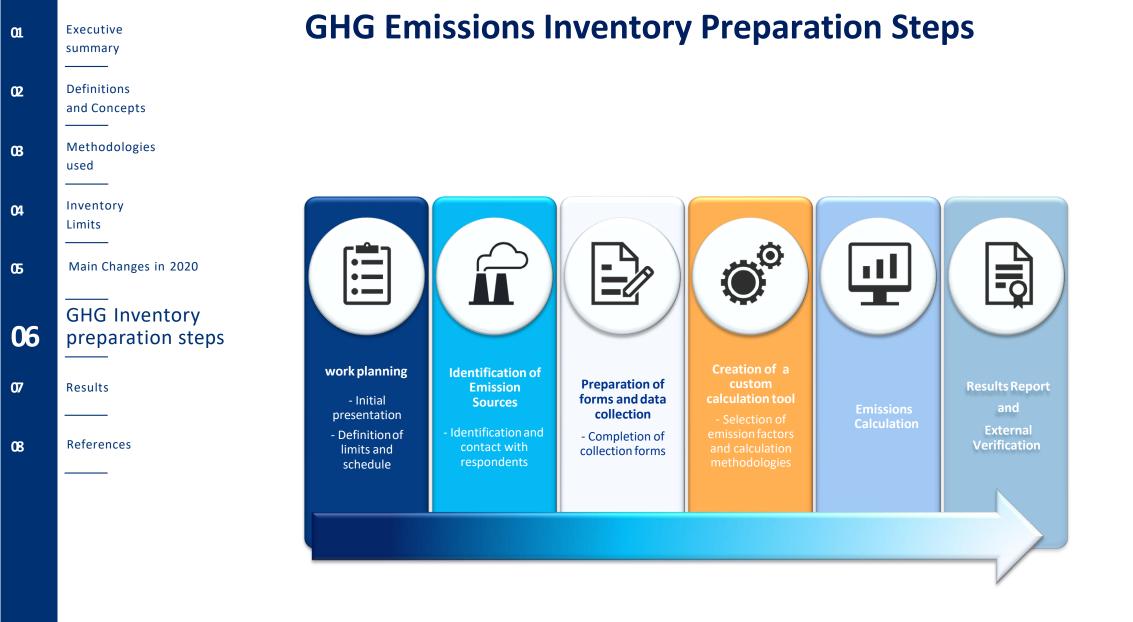
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Main Changes in 2020

In 2020, the following changes occurred in the B3 units:

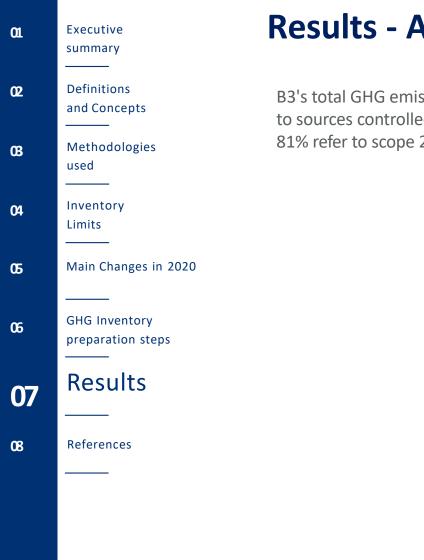
- In 2020 there was no face-to-face work at the Chicago USA office, so we do not consider their scope 2 emissions in the inventory;
- In 2020, due to the COVID-19 pandemic, there was no classroom class at AP Brás. Thus, emissions from category 7 Employee travel (Student transport Bus) were not accounted for;
- The pandemic has changed the way B3 works, activities previously excepted in person began to be carried out remotely. Thus, the quantification of emissions in category 7 was carried out considering the 2019 employee travel survey and the number of employees who actually had to commute to the office.



This chapter presents the results of B3's GHG 2020 inventory, which was developed based on information collected internally and on the methodologies and assumptions presented in this report.

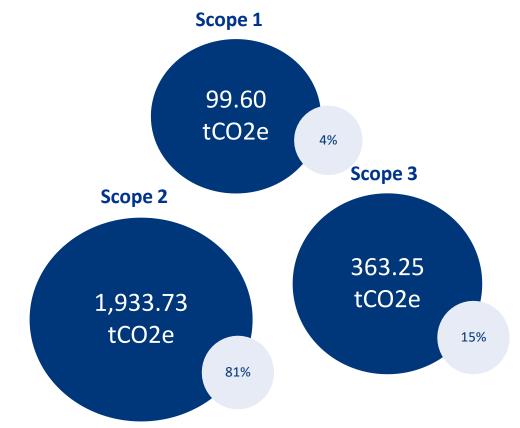
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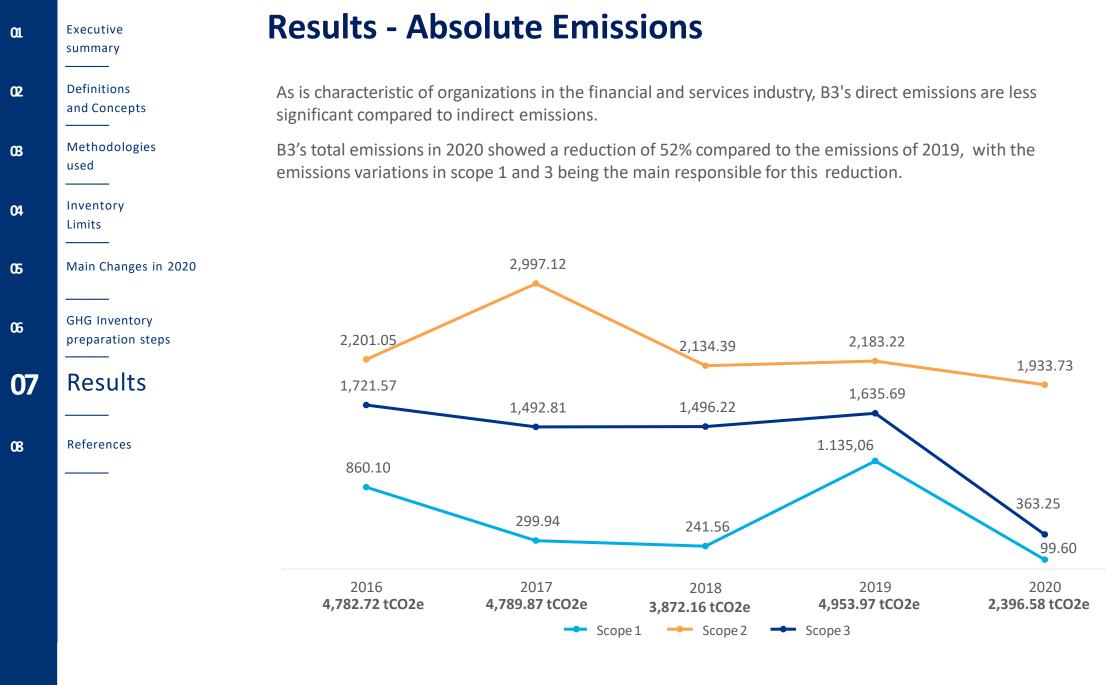
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Results - Absolute Emissions

B3's total GHG emissions for the year 2020 was 2,396.58 tCO2e. As shown below, 4% of emissions refer to sources controlled by the company (scope 1). The other emissions are indirect emissions, of which 81% refer to scope 2 and 15% to scope 3.





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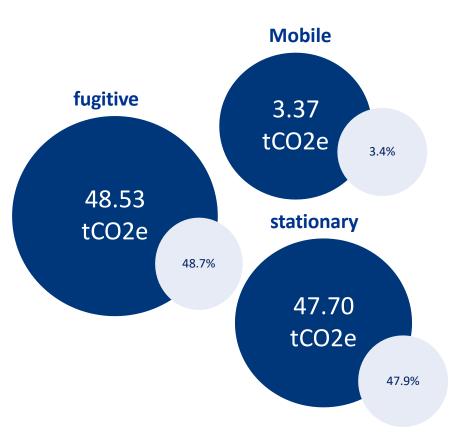
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Results - Absolute Emissions Scope 1

Among the Scope 1 emission sources, the most representative is the fugitive source, associated with the replacement of air conditioning gases (refrigerant gases). Although the quantity in ton of the gas is low (0.02 tons), its global heating potential is high, therefore, when converted to CO2e its emission becomes significant within the context of the company.

lssuance Source	tCO2	tCH4	tN2O	tHFCs	tCO2e
Mobile	3.255	0.001	0.0003	0.000	3.374
fugitive	1.142	-	-	0.0227	48.528
stationary	47.390	0.007	0.0004	0.00	47.697



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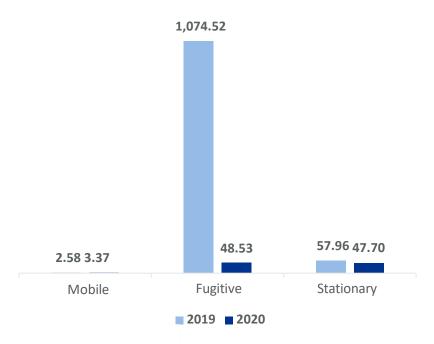
Results - Absolute Emissions Scope 1

When comparing the total Scope 1 emissions of 2019 with the 2020 emissions of B3 it is possible to notice a reduction of 91%.

The most significant reduction is related to fugitive emissions, which represent 48.7% of the total scope 1 emission. The decrease in the amount of refrigerant gas replacement was responsible for the 95% reduction in fugitive emissions.

Replacements in air conditioning equipment are variable and depend on the use of the equipment. It is common for high replenishment years to be followed by low years, as recharging does not always occur annually.

In 2020, emissions from B3 mobile and stationary sources represented respectively 3.39% and 47.89% of total Scope 1 emissions. The stationary source presented an 18% reduction in its absolute emission. Emissions from mobile sources increased 31% compared to 2019 B3 data, due to a 24% increase in gasoline consumption.



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Results - Absolute Emissions Scope 1

Mobile combustion

- Scope 1 mobile emissions are related to the use of the company's own vehicles. In the case of B3, its fleet is quite small, which justifies its low emission compared to other sources in this scope. In 2020, B3's fleet was supplied with gasoline and diesel, with gasoline being responsible for 68% of emissions from this source.
- In 2020, the percentage of ethanol in gasoline remained at 27%, but diesel presented a change in its composition, with a variation from 10.3% to 11.33% of biodiesel in the annual average. This change helps to reduce non-biogenic emissions, thus reducing the impact of diesel consumption.
- As can be seen in the table below, the increase in emissions from mobile combustion is mainly linked to the increase in gasoline consumption:

Issuance			2019		2020	
Source	Activity	Fuel	Consumption in Liters	tCO2e	Consumpti on in Liters	tCO2e
Mobile	Own fleet	Diesel	466.92	1.11	465.43	1.09
Mobile	Own fleet	Gasoline	868.49	1.47	1,350.59	2.28

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Results - Absolute Emissions Scope 1

Stationary combustion

- Emissions from stationary sources result from the combustion of fuel (diesel oil) by generators and the use of natural gas and LPG in restaurants and heaters. In 2020, all stationary emissions came from generators. It should be noted that only generators owned by B3 were considered in this scope. Any energy consumption from third-party generators was allocated in scope 2, according to the guidelines of the Brazilian GHG Protocol Program.
- Emissions from stationary source showed a reduction of 18% compared to 2019, due to the drop in diesel consumption and the non-consumption of cooking gas in 2020. It is noteworthy that the Data Center and the building XV de Novembro were responsible for 70% of emissions from stationary combustion in 2020.

Issuance Source	Activity	Fuel	tCO2e
Stationary	Generator	Diesel	47.70

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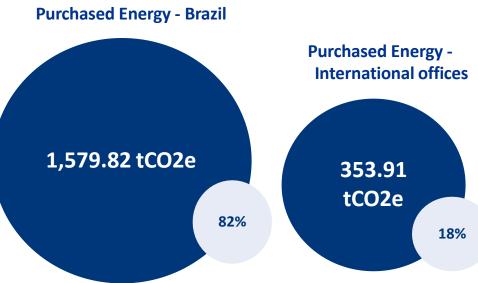
Results - Absolute Emissions Scope 1

Fugitive emissions

- In 2020, fugitive emissions were concentrated in the replacement of CO2 in the units' fire extinguishers (1.14 tons) and in the replacement of R410A gas (0.02 tons).
- Compared to previous years, the replacement of fire extinguishers continued to be of low significance and refrigerant gases accounted for a total of 97.6% of emissions from this source.

Issuance Source	6 st: ::	2019		2020	
issuance source	Activity	Gases (t)	tCO2e	Gases (t)	tCO2e
Fugitive	Fire extinguishers – CO2	1.39	1.39	1.14	1.14
Fugitive	Air conditioning - R134A	0.2043	292.1	0.00	0.00
Fugitive	Air conditioning - R407C	0.4164	738.6	0.00	0.00
Fugitive	Air conditioning - R410A	0.00	0.00	0.02	47.39
Fugitive	Air conditioning - R404A	0.0108	42.4	0.00	0.00

01.	Executive summary	Results - Absolute Emissions Scope 2
02	Definitions and Concepts	•
08	Methodologies used	 Scope 2 emissions refer to energy emissions (electricity and steam) acquired externally. In 2020, B3 consumed 25.93 GWh of the Brazilian electricity grid in its operations, a reduction of 11% compared to consumption in 2019.
04 05	Inventory Limits ——— Main Changes in 2020	 In 2020, emissions associated with this scope represented around 82% of the company's total emissions, which can be broken down into energy consumed in international offices and energy consumed in Brazilian Offices.
06	GHG Inventory preparation steps	The London office's international emissions were calculated using estimates of the annual energy consumption per employee of the units in Brazil.
07	Results	Scope 2 emissions from London plus Shanghai's represent 18% of scope emissions.
08	References	The Chicago office did not have its emissions quantified because, in 2020, its activities were carried out remotely. 1,579.82 tCO2e



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Results - Absolute Emissions Scope 2

• The distribution of emissions is consistent with the company's structure. As the largest group of offices are located in Brazil, 82% of scope 2 emissions refer to the purchase of energy in this country.

Issuance Source	tCO2	tCH4	tN2O	tCO2e
International Energy Purchase	353.91	-	-	353.91
Bralian Energy Purchase	1,579.82	-	-	1,579.82

• Emissions related to energy purchases are based on specific emission factors consistent with the energy matrix of each country, thus despite the emission in Brazil being the most relevant due to the number of units and absolute energy consumption, its emission factor (tCO2e/Mwh) is lower when compared to units abroad as it presents a predominantly renewable matrix.

Issuance Source	tCO2e/MWh
International Energy Purchase - USA	0.433
International Energy Purchase - London	0.233
International Power Purchase - Shanghai	0.704
Purchase of Energy Brazil	0.062

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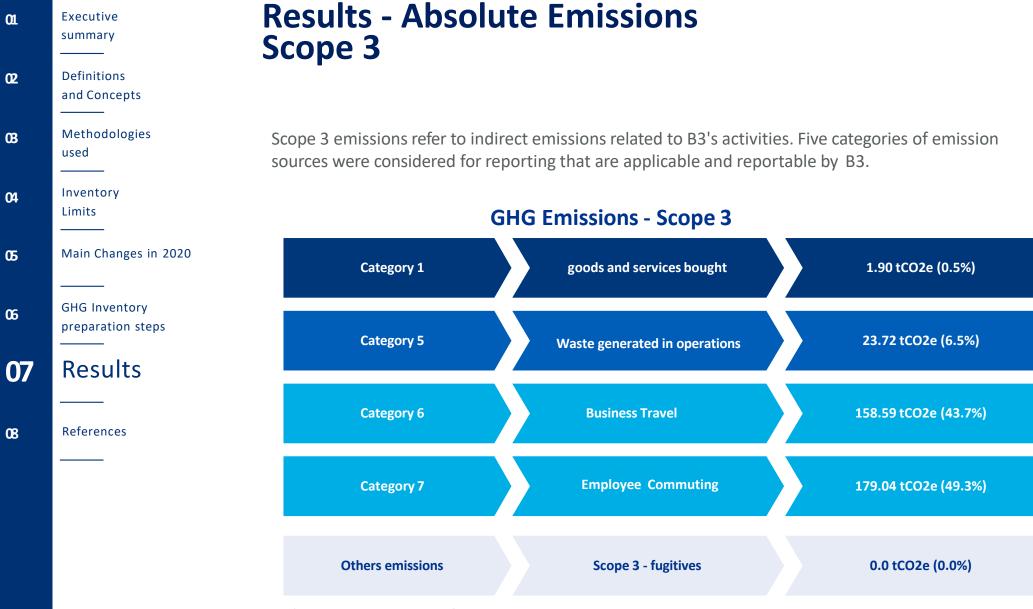
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Results - Absolute Emissions Scope 2

- The 11% reduction in energy consumption, associated with the 18% decrease in the 2020 GRID emission factor, was responsible for the 27% reduction in scope 2 emissions linked to energy purchased from the Brazilian GRID.
- The GRID emission factor is linked to the use of thermoelectric plants during the year (when hydroelectric plants are not sufficient to meet the demand of the population, more thermoelectric plants are activated to meet this demand) and this consequently results in a variation in the emission of greenhouse gases.
- The table below shows the variations in B3's electricity consumption between the years 2019 and 2020 and the variation in the GRID's emission factor.

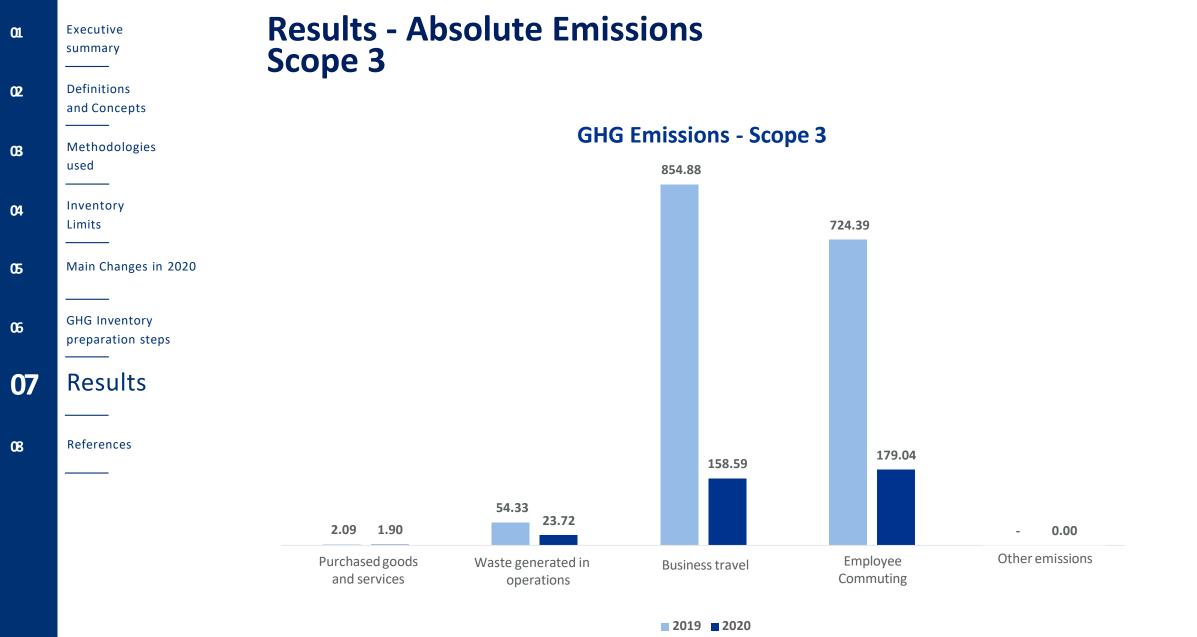
	Energy Consumption in Brazil (Mwh)	Emission Factor (Average Annual tCO2eq/Mwh)	Scope 2 Brazil Emission (tCO2eq)
2019	29,208	0.075	2,178.91
2020	25,932	0.062	1,579.82
Variation	-11%	-18%	-27%



*The scope 3 categories defined by the Brazilian GHG Protocol Program were considered.

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02	Definitions and Concepts		-					
œ	Methodologies used					2020		
04	Inventory Limits		Emission Source	Other Gases (t)	tCO2	tCH4	tN2O	tCO2e
05	Main Changes in 2020		Category 1 - Purchased goods and services	-	1.8183	0.0007	0.0002	1.9012
06	GHG Inventory preparation steps		Category 5 - Waste generated in operations	-	-	0.9489	-	23.7213
07	Results		Category 6 - Business Travel	-	156.2887	0.0098	0.0069	158.5868
08	References		Category 7 - Employee Commuting	-	171.9632	0.0764	0.0173	179.0368
			Other Scope 3 emissions (Fugitive)	-	-	_	-	-

According to the table above, Scope 3 emissions were concentrated in the Business Travel and Employee Commuting category, together representing 93% of total emissions in this scope.



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Results - Absolute Emissions Scope 3

Other Scope 3 Emissions (Fugitive)

• This category includes fugitive emissions from sources that are not controlled by B3. In 2020 there were no reports of fugitive emissions.

Category 1: Purchased goods and services

• This category includes emissions relating to the transport of documents by courier. In 2020, there was a 9% reduction in the mileage traveled, which represented a decrease of approximately 0.18 tons of CO2e.

Category 5 - Waste generated in operations

• THE Category 5 presents emissions linked to the final disposal of waste generated in the operation of B3. In recent years, the disposal of organic waste has been concentrated in landfills and, in 2020, there was a reduction in the amount of waste sent to landfills, which generated a 56% decrease in Category 5 emissions.

Destination	2019 tCO2e	2020 tCO2e
Landfill	54.33	23.72

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Results - Absolute Emissions Scope 3

Category 6 - Business Travel

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Category 6 (business travel), in 2020, represented the second largest source of emission in b3's scope 3. This category includes air travel and employee travel by taxi and other transport, as shown below.

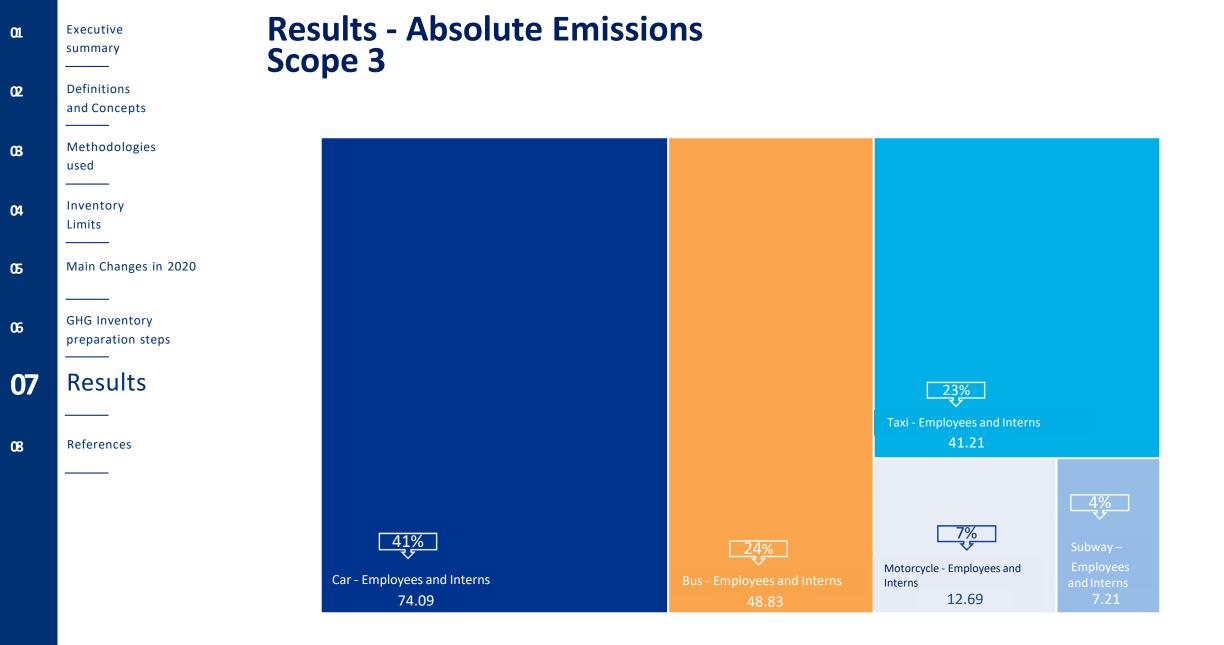
Category 6 (Business Travel)	2019 tCO2e	2020 tCO2e
Transport of employees/advisers (Taxi)	86.88	22.90
Air travel	768.01	135.68

In 2020, emissions from traveling by taxi reduced 74% compared to 2019. This variation was due to the decrease in mileage traveled, as shown in the table below.

	2019	2020
KM covered (Taxi)	622,889.60	164,003.75

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œ	Methodologies used		lated to air travel reduced	-		0			
04	Inventory Limits	emission fac	This reduction in the segments flown reflects some of the impacts caused by COVID-19. The DEFRA emission factors, which were updated in 2020, showed reductions of 4% for short haul, 2% for medium haul and 2% for long haul.						
05	Main Changes in 2020		en in the table below, the relation to 2019 of appro		eage (short, mediu	ım and long) show	ed similar		
06	GHG Inventory preparation steps								
07	Results			2019	2020	Variation			
			Number of Segments	4,056	746	-82%			
08	References		KM short	597,307	115,332	-81%			
			Average KM	1,918,079	347,003	-82%			
			KM Long	5,095,042	914,298	-82%			
			Total KM	7,610,428	1,376,632	-82%			
			tCO2e	768.01	135.68	-82%			

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08	Methodologies	Category 7 -	Employee Commuting					
04	used Inventory Limits	were ex mileage	trapolated from the average traveled per person referri	missions related to employee travel accounted for 49.3% of scope 3 emissions. Data polated from the average number of employees who worked in 2020 multiplied by the aveled per person referring to 2019 data. For this inventory the survey "How are you 3?" was not carried out, as 90% of employees started working at home in March 2020.				
05	Main Changes in 2020	 The remote performance of employees was responsible for the 75% reduction in emissions li to commuting. 						
0 6	GHG Inventory preparation steps		-					
07	Results			2019	2020	Variation		
			Category 7: Employee Commuting - tCO2e	724.39	179.04	-75%		
08	References		0					



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Results - Absolute Emissions Biogenic and fugitive emissions

Emissions resulting from the combustion of biofuels have peculiarities, which is why they were treated differently from those from fossil fuels. Fuels from biomass have CO2 neutral emission, this premise is adopted because it is considered that the CO2 released in the combustion of biomass is equal to the CO2 removed from the atmosphere during the photosynthesis process, thus, it is possible to consider it neutral. On the other hand, CH4 and N2O emissions cannot be considered neutral because these gases are not removed from the atmosphere during the biomass life cycle. In this case, CH4 and N2O emissions were included in scope 1.

In the case of Brazil, all diesel commercialized has a biodiesel fraction (Law nº 11.097, of 01/13/2005) and all Brazilian gasoline also necessarily has a variable fraction of biogenic fuel, in this case ethanol. Thus, to account for the consumption of diesel and gasoline, it was necessary to separate the fossil fraction from the renewable one. In 2020, gasoline and diesel oil produced in Brazil had an average of 27% anhydrous ethanol and 11.33% biodiesel in their compositions, respectively. Therefore, the GHG emissions related to these percentages of biomass fuels were duly deducted from the company's total emissions.

The table below shows the emissions considered "neutral" in scopes 1, 2 and 3, arising from the burning of biomass fuels in the activities of B3 in 2020. The emission of R-22 refrigerant gas is also reported, which, despite not being included in the Kyoto Protocol because it is regulated by the Montreal Protocol¹, it has a representative global warming potential.

¹ The Montreal Protocol is an international treaty that restricts emissions of gases that are harmful to the ozone layer.

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Results - Absolute Emissions Biogenic and fugitive emissions

Scope	emission source	Fuel consumed	Neutral emissions (tCO2e)
	stationary sources	Diesel B5	5.41
Convo 1		Diesel B5	0.13
Scope 1	mobile fonts	Gasoline	0.56
		Hydrous ethanol	0.00
Scope 2	Acquisition of electricity (generator)	Diesel B5	0.00
	Category 1: Purchased goods and services	Gasoline	0.46
	Category 6: Business Travel	Gasoline	5.56
Scope 3		Ethanol	89.55
		Diesel B5	5.50
	Category 7: Employee Commuting	Gasoline	29.93
		Extrapolation	0.00

Scope	emission source	Consumed gas	Montreal Protocol gas emissions (tCO2e)
Scope 1	Fugitive Sources	R-22	0.00

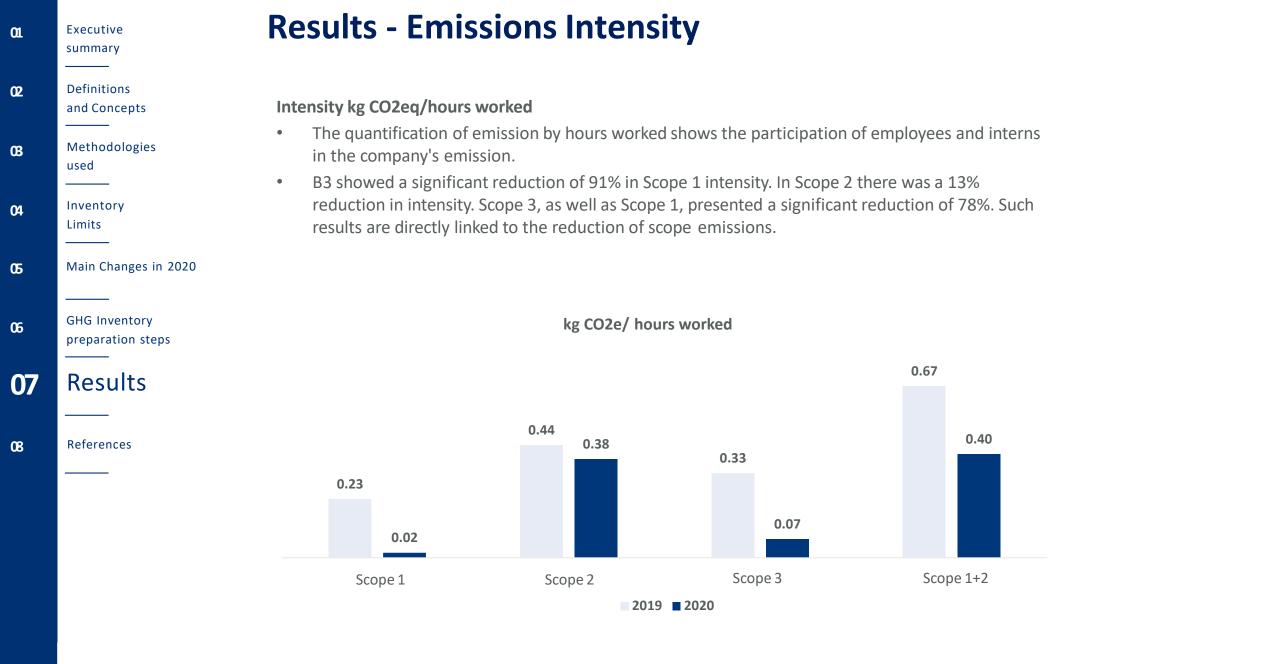
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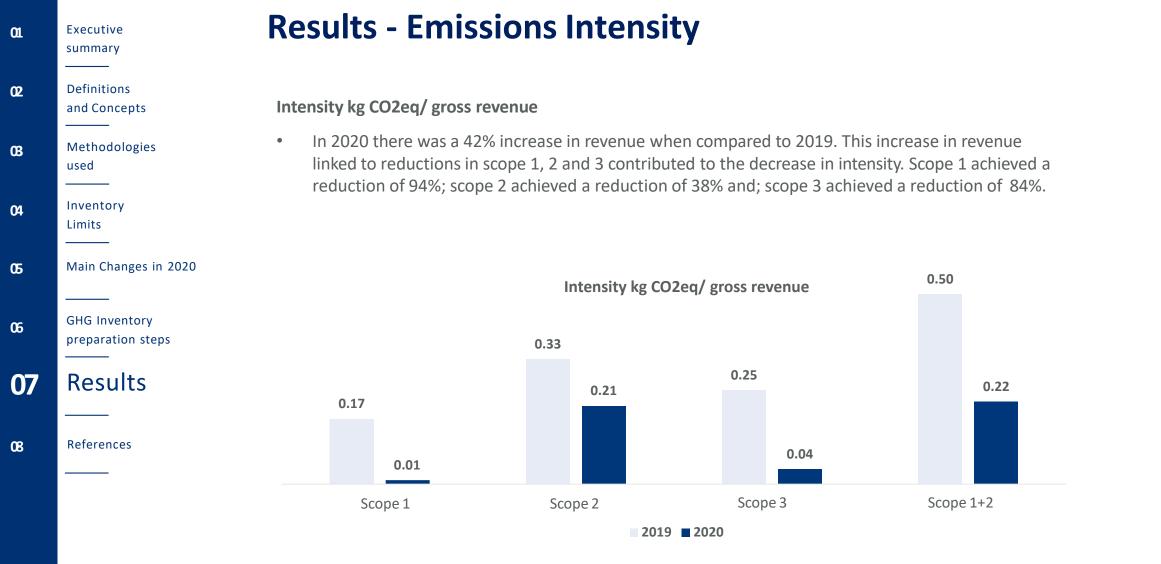
Results - Emissions Intensity

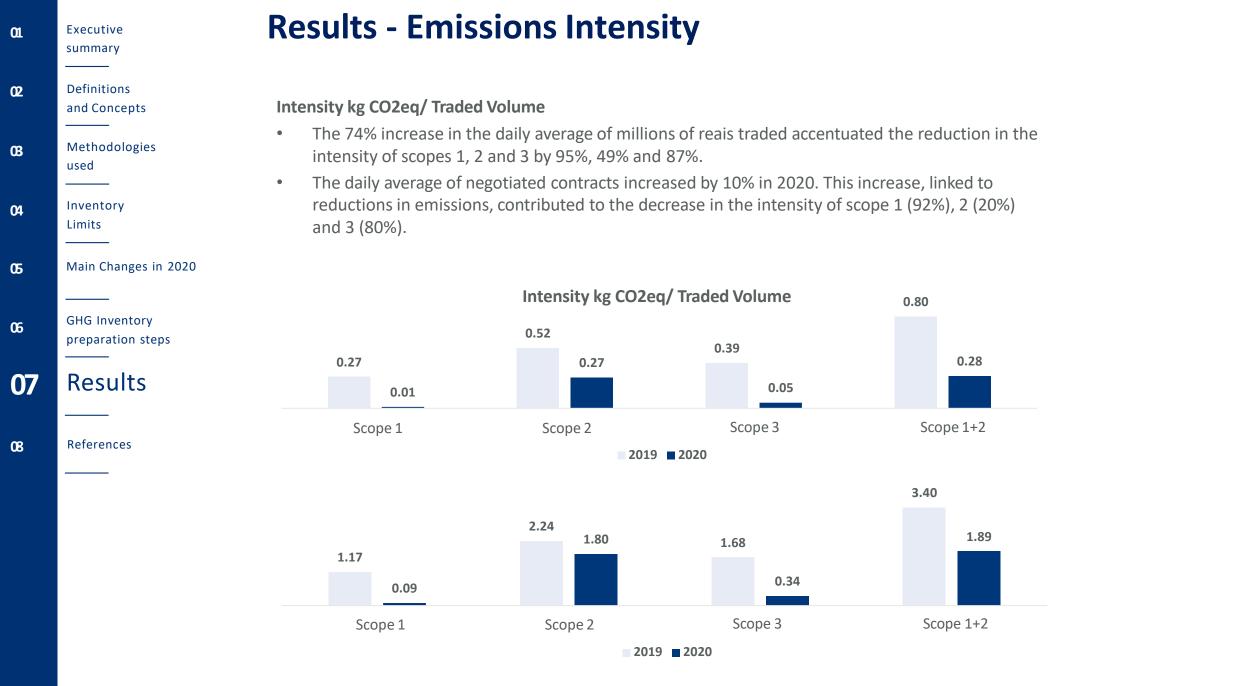
B3 uses 4 indicators to assess its GHG emissions performance, they are:

- Intensity of emissions per hours worked
- Intensity of emissions by gross revenue
- Emission intensity by traded volume Bovespa Segment
- Emission intensity by traded volume BM&F Segment









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02	Definitions and Concepts	• The Greenhouse Gas Protocol - A Corporate Accounting and Reporting Standard - Revised Edition - March 2004 - WRI/WBCSD.
08 04	Methodologies used Inventory Limits	• 2006 IPCC Guidelines for National Greenhouse Gas Inventories (Intergovernmental Panel on Climate Change).
Œ	Main Changes in 2020	 Brazilian GHG Program Protocol - Guide for elaboration in inventories corporate in emissions of gases from It is made stove (GEE) – FGV, 2009.
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