

Eco-efficiency Management



bradesco

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Eco-efficiency can be understood as a level of organizational efficiency achieved by the delivery of competitively priced goods and services that satisfy human needs and bring quality of life, while progressively reducing ecological impacts and resource intensity throughout the life-cycle to a level at least in line with the Earth's estimated carrying capacity.
(Adapted from: WBCSD. Eco-Efficiency, 2002).

Part of our Sustainability Strategy, eco-efficiency links financial and environmental performance, through process optimization, technological innovations and savings in the use of natural resources and materials, in order to reduce costs and increase competitiveness. We established our Eco-efficiency Management Program in 2010 and, since then, it has been the guideline for environmental management in the operations of the entire Organization.

Master Plan

We periodically update our Master Plan, through which we set targets and initiatives to reduce consumption of water, energy, printing paper and Greenhouse Gas (GHG) emissions.

For the first cycle, which covered the period from 2011 to 2015, we set relative targets: how much environmental impact we generated in order to obtain a real profit. We achieved all targets at the end of 5 years.

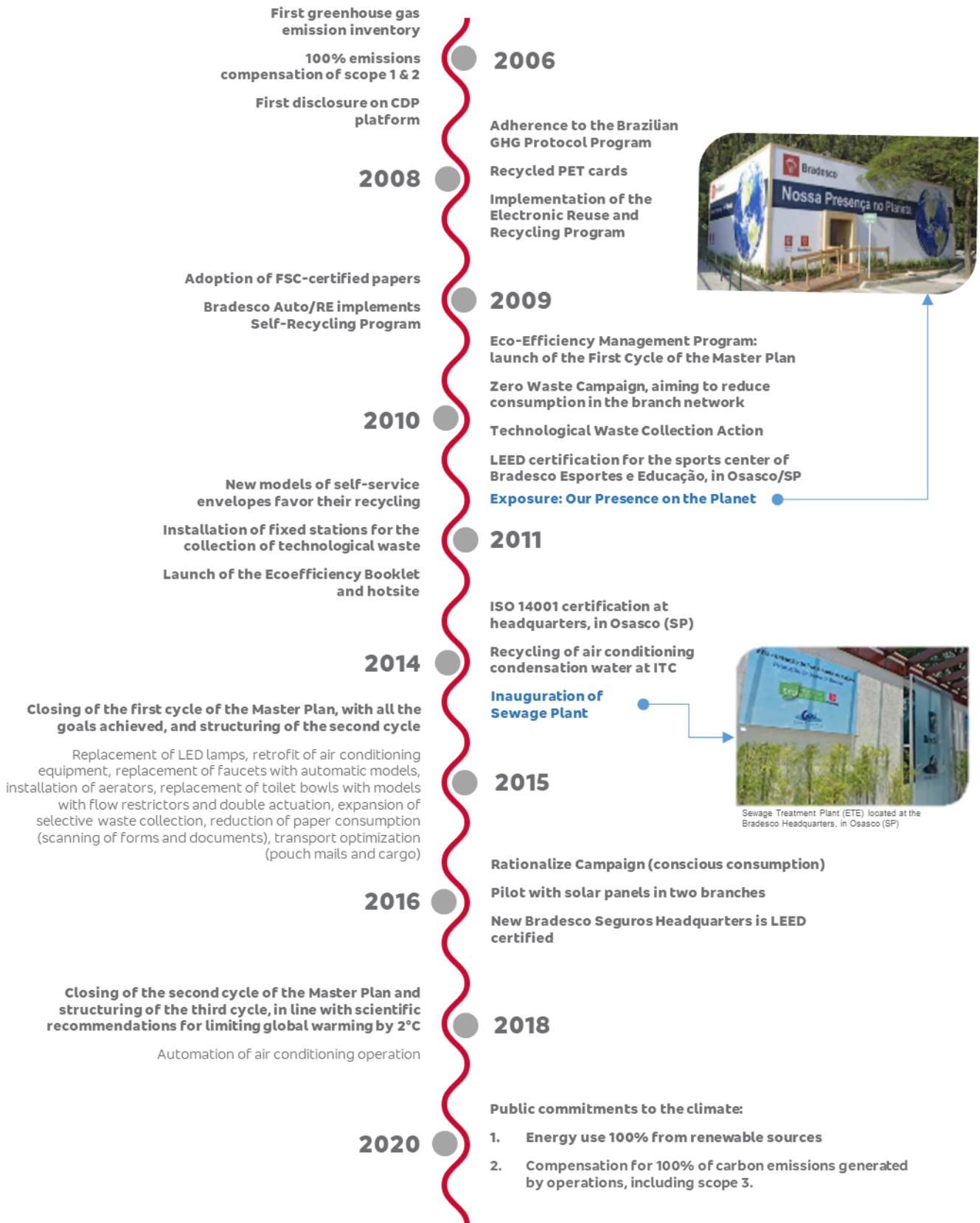
For the second cycle, in force from 2016 to 2018, we set absolute and relative annual targets, based on the year 2015. By the end of 2018, we had reached 62% of the absolute targets.

In 2021, we concluded the third cycle, which started in 2019, with significant reductions in the established indicators.

We have the most diverse areas involved in the implementation of projects and initiatives to reduce the Organization's

environmental impacts. They are also the ones who provide the data for updating our performance indicators.

Our new current cycle is from 2022 to 2030. For the development of the targets, we used the methodology of Science Based Targets Initiative (SBTi). SBTi is a collaboration between CDP, the United Nations Global Compact and the World Wildlife Fund (WWF), which provides companies with a clearly defined path to reduce emissions in line with the Paris Agreement targets. Targets are considered "science-based" if they align with what the latest climate science deems as necessary to meet the Paris Agreement targets – limiting global warming to under 2°C above pre-industrial levels and seeking efforts to limit warming to 1.5°C. Based on this, we are committed to reducing 50% of operational emissions from Scope 1, 2 and 3 by 2030, which represents an annual target of -4.6%, subdivided between the scope indicators.



Environmental Management

Our Environmental Management System (EMS) aims to reduce water and energy consumption and the generation of waste and greenhouse gas emissions in our facilities, in addition to ensuring compliance with environmental laws.

To this end, we promote environmental education programs and invest in certifications and technology, such as management systems.

We were the first financial institution in the country to have its EMS certified in the ISO14001 Standard (Prédio Av. Paulista, in 2006) and, by increasing the number of certified administrative buildings, we have observed relevant positive impacts, which led us to the

implementation of our EMS as well in the branches.

Thus, we created the Environmental Seal, an adaptation of the ISO 14001 guidelines for the network, certified by an independent third party. A pioneer among financial institutions, the system was deployed in more than 1,900 branches in 2021.

At the end of that year, considering the number of employees, 65% of our facilities had the EMS implemented and certified - ISO14001 in administrative buildings and Environmental Seal in the branch network. Our target is to reach 100% by the end of 2023.

Awareness Campaigns

For the branch network, we have the Zero Waste Program, which aims to improve operational efficiency through intensive and continuous control of expenses, without losing the quality of service and services and goods offered.

The following is among the program's indicators: energy and water consumption, transport (of values, loads and pouches) and document printing.

For the employees of the administrative units, we maintain communication and environmental education actions, with the objective of encouraging conscious consumption in all interaction environments, both at the workplace and in their personal lives.

The training of multipliers in each facility is among these actions, in addition to sending reminders and tips by e-mail, and other specific actions that reinforce the commitment to the targets set in the Master Plan.

Energy Efficiency Plan

Since 2012, we have been working to reduce energy consumption through monthly monitoring per unit. We set annual targets and a ranking of the most efficient units to encourage internal savings actions.

In 2018, we implemented the Energy Efficiency Master Plan, which provides for actions to increase energy efficiency in our buildings, through monitoring and automation (BMS) in a 6-year cycle (2018-2023).

Through this Plan, we continued to replace light bulbs with the LED model, covering 767 branches in 2021, and carried out the automation project in 14 administrative buildings.

Keeping with the commitment assumed, in 2020, to have all the Organization's operations supplied with energy from renewable sources, in 2021, we contemplated 74 units in the Free Energy Market, including branches, administrative buildings and schools of Fundação Bradesco.

In addition to these, we have more than 150 branches consuming energy from three photovoltaic plants and we have contracted ten more plants that will supply the consumption of at least 500 bank branches through the distributed generation project.

ETE

In 2014, we opened a sewage treatment plant (ETE) at the Organization's headquarters in Osasco (SP). The measure aims to reuse water and reduce consumption of potable water.

With the capacity to treat 6000 m³ of sewage per month, the ETE produces reuse water for irrigation of gardens, toilets and cooling towers. With this initiative, we saved R\$ 1 million annually.



Zero Landfill

Our Solid and Technological Waste Management Plan made it possible to map the waste generated by our operations, which has contributed to our progress in managing this aspect.

Selective collection, for example, was implemented in all our administrative buildings in Brazil and in more than 500 branches in Greater São Paulo.

The Landfill Zero project, implemented in 2020, enabled 100% of the waste generated by our operations in Greater São Paulo to be reused in the form of recycling, composting or fuel. With this action, 30% of our annual waste – 2,000 tons – did not go to landfills.

Greenhouse Gas Emissions Inventory

Since 2006, we have prepared the Emissions Inventory of our operations, following the guidelines of the ABNT ISO 14964-1 Standard. As of 2008, we also incorporated the specifications of the Brazilian Program GHG Protocol to the process.

We neutralized direct emissions and those related to energy acquisition since the first inventory. In 2020, we started to neutralize all operational emissions, including indirect ones.

Evolving in this process, also in 2020 we joined the Partnership for Carbon Accounting Financials (PCAF), to expand our understanding of the indirect emissions financed by our loans and investments. In 2021, we were the first Brazilian bank to calculate and publish its financed issues. We have also advanced in our climate strategy, committing to decarbonize our credit and investment portfolios by 2050 (see more information in our [Climate changes](#) notes).

CDP

In 2006, we joined the CDP, a global disclosure system on the environmental impacts of companies and cities, accessed mainly by investors. In 2021, we were evaluated by CDP with a B concept, equivalent to the management level, being recognized for taking coordinated actions in the face of climate issues. The performance is above the industry average in Latin America, whose concept is C.

In 2008, we assumed the role of disseminators of the initiative (Supply Chain Leadership Collaboration – SCLC). Every year, our strategic suppliers are invited to answer the CDP Supply Chain and, through an event, we encourage them to disclose and manage their greenhouse gas (GHG) emissions, in a movement to raise awareness of the risks and opportunities arising from climate change. In 2021 we achieved the A- (Leadership) rating in the CDP Supplier Engagement Rating assessment.

Result of the Eco-efficiency Master Plan (2019-2021 cycle)

Performance - Eco-efficiency Master Plan 2019-2021 (%)

Indicator	Measure ment unit	2019		2020		2021	
		Absolute target	Result	Absolute Target	Result	Absolute target	Result
Water	m ³	-2.00	9.05	-2.50	-16.47	-2.50	-12.00
Energy	kWh	-3.70	0.32	-5.60	-15.00	-3.70	-11.00
Printing paper	Sheets	-20.00	-17.60	-2.98	-24.47	-2.98	37.00
Land fleet	Liters	-4.50	7.50	-4.50	-41.61	-4.50	9.00
Air fleet	Liters		-19.00	-6.78	-26.47	-6.78	10.00
Transport via taxi	R\$		0.60	-1.12	-38.03	-1.12	-31.00
Transport of values	R\$	-0.86	-0.10	-0.83	-5.55	-0.81	-14.00
Air travels	km		-2.50	-1.00	-83.06	-1.00	-72.00

Eco-efficiency Master Plan (2022-2030 cycle)

For the 2022–2030 cycle, the targets for reducing our operating emissions follow the methodology of Science Based Target initiative (SBTi). Our commitment is to reduce 50% of these emissions by 2030, which represents an annual target of -4.6%, subdivided into the following indicators:

Scope 1	Scope 2	Scope 3
Own fleet - air Own fleet – land Refrigerant gases Diesel (generators)	Energy	Transport of values Transport of loads Transport of pouches Transport of assistance Solid waste Airline tickets Taxi/Uber/99 refund Chartered shuttles Employee commuting

On our sustainability website it is possible to access the details of the [eco-efficiency KPIs](#), since 2010.

Annex I - Greenhouse Gas Emissions - Operational

Direct emissions (Scope 1) in tCO₂e				
Category	2018	2019	2020	2021
Generation of electricity, heat or steam	845	766	438	336
Transport of materials, products, waste, employees and passengers	1,047	973	703	791
Fugitive emissions	11,700	8,594	12,493	13,070
Total Gross Emissions	13,592	10,333	13,634	14,197
Generation of electricity, heat or steam	73	80	50	39
Transport of materials, products, waste, employees and passengers	257	268	147	144
Total Biogenic Emissions	330	348	197	183

Scope 1 - Target and performance				
Year	Emissions (tCO₂e)	Reduction target compared to the previous year (%)	Accomplished in relation to the previous year (%)	Accomplished in relation to the base year (%)
2018 (base year)	13,592	-1.00	69.16	
2019	10,333	-0.13	-23.98	-23.98
2020	13,634	-0.19	31.94	0.31
2021	14,197	-0.24	4.10	4.50

Indirect emissions (Scope 2) in tCO₂e				
Category	2018	2019	2020	2021
Energy acquisition	37,578	38,347	142	23

Scope 2 - Target and performance				
Year	Emissions (tCO₂e)	Reduction target compared to the previous year (%)	Accomplished in relation to the previous year (%)	Accomplished in relation to the base year (%)
2018 (base year)	37,578	-4.70	-21.32	
2019	38,347	-4.29	2.00	2.00
2020	142	-7.79	-99.63	-99.62
2021	23	-7.00	-83.60	-99.94

Other indirect emissions (Scope 3) in tCO₂e

Category	2018	2019	2020	2021
Transport and distribution (outsourced fleet – upstream)	49,814	63,089	60,385	53,410
Waste generated in operations	6,450	5,234	4,127	3,722
Business trips	23,532	21,331	5,219	2,620
Employee commuting (home-work)	94,023	99,505	59,412	40,719
Home Office				1,796
Total Gross Emissions	173,819	189,158	129,143	102,267
Transport and distribution (outsourced fleet – upstream)	5,664	7,989	8,673	8,164
Business trips	3,408	3,066	1,132	1,424
Employee commuting (home-work)	21,326	22,623	13,692	6,751
Total Biogenic Emissions	30,398	33,678	23,497	16,340

Scope 3 - Target and performance

Year	Emissions (tCO ₂ e)	Reduction target compared to the previous year (%)	Accomplished in relation to the previous year (%)	Accomplished in relation to the base year (%)
2018 (base year)	173,819	-1.57	-7.94	
2019	189,158	-0.15	8.82	8.82
2020	129,143	-0.44	-31.72	-25.70
2021	102,267	-0.26	-20.08	-41.20

Total emission intensity (Scopes 1, 2 and 3)

Indicator	2018	2019	2020	2021
By revenue (tCO ₂ e/R\$ MM)	0.97	0.95	0.69	0.49
By accounting net profit (tCO ₂ e/R\$ MM)	11.79	14.06	8.64	5.31
Per capita (tCO ₂ e/employee)	2.28	2.60	1.60	1.34