

Airport Name: Rio de Janeiro International Airport – RIOgaleão

Responsible: Milena Maria Martorelli, Sustainability Manager

Project Name: RIOgaleão Waste Management

Executive Summary

RIOgaleão's Climate Change Plan (“PEMC”) can be considered as one of the biggest challenges of the Airport Operator in which the theme is developed collaboratively, with the contribution of investments in infrastructure, services and process improvements, as well as fostering "changes" in cultures and paradigms.

The “PEMC” has established guidelines, plans and evaluates actions and targets and encourages the development and improvement of mitigation actions collaboratively in order to create internal conditions to identify the consequences and structure actions to cope with the impacts related to the airport operation, surrounding the airport site and its production chain.

RIOgaleão has adopted several actions that directly impact the management and reduction of GHG Emissions under the various Programs: Energy Efficiency, Solid Waste Management, Water Management, Recovery of Degraded Areas, Environmental Training and Education, “*Incentivo à Linguagem*” (Language Incentive), “*Conexão Escola*” (School Connection), among others.

This document is intended to inform developing “Rio de Janeiro International Airport”- level Waste Policy, in terms of climate change and socio-economic on airport infrastructure and operations potential impacts only - other impacts that derive from solid waste management include health effects, contamination of water bodies, etc will not be described.

The “Waste Sector” contributes to Climate Change as one of the sources of greenhouse gases (GHGs) emissions and is the second largest emitter in Rio de Janeiro – City (based on “*SISCLIMA*¹ – *Sistema de Monitoramento das Mudanças Climáticas*” and Climate Change Inventory²).

As in the matrix of GHG sources in the municipality of Rio de Janeiro, solid waste was the second largest source of contribution in the GHG matrix of the airport operation in 2015, which represented 27,14% of total emissions. However, with the implementation of waste management actions adopting recycling and composting actions, currently, waste represents only 2% in the emission matrix of RIOgaleão (based on the airport operator's emissions inventories).

As a result, Solid Waste Management in RIOgaleão, in the period from 2015 to 2022, contributed to the effective reduction of GHG emissions of 36.300,00 tCO₂, which represents a reduction of more than 42% of emissions from the solid waste source.

Project results and benefits

As a result, Solid Waste Management in RIOgaleão, in the period from 2015 to 2022, contributed to the effective reduction of GHG emissions of 36.300 tCO₂, which represents a reduction of more than 42% of emissions from the solid waste source.

Over the years of concession (2015 to 2022), RIOgaleão, send to recyclers' cooperatives and composting more than 16.000,00 tons of segregated waste and more than 30.000 hours of socio-environmental training with the airport community.

The actions of RIOgaleão's Waste Management and training programs foster the income generation of 57 families of recyclers and have produced more than 1,600 tons of organic compost since its implementation.

In addition to the socio-environmental benefits (reduction of GHG emissions, income generation for people in social vulnerability, etc) of the actions of the programs, RIOgaleão saved more than R\$ 1,800,000.00 (millions of Reais) with the disposal of waste to landfill.

Currently, more than 70% of the common waste generated in the airport operation is segregated. For comparative purposes, according to the Brazilian Association of Public Cleaning and Special Waste Companies ("ABREPE"3), the recycling percentage in Brazil is only 4% and 1% of organic waste are reused (composting, energy, and gas production, etc.) and in Germany, a country with high development in solid waste management, the recycling rate reaches 67%.

We can finalize the document stating that the success of the results related to the reduction of GHG emissions, financial benefits, social development, etc., derived from the Waste Sector in RIOgaleão is achieved through the active participation of the entire airport community and its socio-environmental benefits exceed the geographical barriers of the airport site with an effective contribution of improvement to society in general. Riogaleão Solid Waste Management directly contributes to the United Nations Sustainable Development Goals numbers: 2, 4, 11, 12, 13 and 17.

