Zurich Airport Brasil

Airport Name: Aeroporto Internacional de Florianópolis | Aeroporto Internacional de Vitória | Aeroporto de Macaé

Airport Group: Zurich Airport Brasil

Responsable: Priscilla Mesquita Matos, Environmental Engineer

Project Name: Carbon Flow – Zero Carbon Project

Executive Summary

Given the complexity of managing the large volume of essential information for greenhouse gas (GHG) governance in an efficient and traceable manner, an innovative technological solution has been developed at virtually zero cost and implemented in the 3 airports of the Zurich Group Airport Brazil simultaneously.

In addition, this solution can be replicated for any business environment that uses the following tools: Forms, Sharepoint, Power Automate, Excel and Power BI from the Microsoft 365 suite.

The design of this solution (called Carbon Flow) was created by combining various tools that are independent of each other, but when systematically integrated, perform several tasks automatically.

From communication with stakeholders, data insertion and storage, and GHG quantification, to the calculation of KPIs in real time on the Zero Carbon Project dashboard, the Company is now able to assess the performance of emissions (by source) and the carbon footprint of its airports.

Therefore, Carbon Flow is classified as a frugal innovative technological solution that brings agility, reliability and traceability to all stages of the data and evidence collection process and optimizes the preparation of the Annual GHG Inventory and the audit for carbon accreditation, in addition to being replicable for any environment that uses Microsoft 365, at virtually no cost.

There is no doubt that this solution has become a powerful tool for corporate governance because it supports managers in strategic decision-making and gives them opportunities for generating positive changes, eliminating inefficiencies in processes and quickly adapting to changes, in a holistic, safe and collaborative way - Business Intelligence.

Finally, commitment to the environment is one of the values set by Zurich Airport's top management. The aim of the company is to build an institutional culture based on awareness and respect appreciation for the environment and natural resources in an integrated fashion by taking sustainable development into account in all strategic decisions as well as in day-to-day operations.

Results and Benefits of the Proyect

- Continuous and automated communication with stakeholders of the Project;
- Automation of the collection of primary data and supporting documents, essential for preparing the GHG inventory and carbon accreditation audits, respectively;
- Information traceability: date, department, source of data, evidence and person delegated for filling out the form;
- Secure storage of information ("in the cloud");
- Real time updating of KPIs to an exclusive Project dashboard, making it possible to assess the performance of emissions by source of origin and the carbon footprint of each airport;
- Development of the in-house solution, with full autonomy to modify and adapt the solution, if necessary;
- Audit processing made easier due to the speed in extracting information, processing and analyzing data;
- The solution for automatic migration of annual data to officially accepted calculation tools (GHG Protocol - Corporate Accounting and Reporting Standard and Airport Carbon and Emissions Reporting Tool - ACERT) is currently under development;
- Dispensation of manual work, slow response time and eradication of unreliable information;
- Replicable for any business environment that uses the tools Forms, Sharepoint, Power Automate, Excel and Power BI from Microsoft 365, at virtually zero cost;
- A practical case of frugal innovation.

Legend: KPIs and CO2e emission by type source, in the Zero Carbon Project Dashboard