

Airport Name: Salvador Bahia Airport, Vinci Airports

Responsible: Roberto Cristin Cardoso, Supervisor de Manutenção

Project Name: Reuse of Air Conditioning Condensation Water

Executive Summary

The reuse of condensation water from the Air Handling Unit (AHU) on the north pier was designed and conceived by a Maintenance Supervisor at Salvador airport (Roberto Cardoso) and supported by the Environmental Management (Alessandra Reis) and validated by the technical board (Yann Le Bihan) in October 2020 and completed in May 2021. This project to reuse condensation water from the air conditioning has significantly reduced the water consumption of one of the largest consumers at the passenger terminal, the cooling towers.

Project results and benefits

In total, 48 m³ of water are generated per day, which is equivalent to 8000 cubic meters per year, reducing the water consumption contracted in the towers by 25%, representing more than 10% of the airport's total consumption. This water is now collected in storage tanks and transported to the 4 cooling towers, which have pumps and water meters. The water supplies the 4 cooling towers at the north pier terminal.

This project was of great importance in reducing consumption at Salvador airport and, with its completion in May 2021, it is possible to achieve a 45% reduction in the airport's drinking water consumption.

Key results related to the economic potential

Evolution of Investments vs. net saved costs, in €k,

Per €1 k VINCI would invest in in 2021-2023...

...VINCI would generate

€1 k Invested

€2.2 k Saved costs

