AEROPORTI DI ROMA

TOGETHER, BEYOND FLYING

CO2e emissions produced by Fiumicino and Ciampino airports in 2024

Off-setting Report

Aeroporti di Roma (ADR) neutralized the residual CO2e emissions produced by the Fiumicino and Ciampino airports during 2024 by purchasing a total of **64,600 carbon credits**[1], sufficient to off-set an amount of emissions greater than the minimum required by the Airport Carbon Accreditation (ACA) certification, equal to:

	Fiumicino Airport	Ciampino Airport	TOT.
Scope 1 [tonCO2e]	62,482.8	1,273.9	63,756.7
Scope 2 [tonCO2e][2]	0.0	0.0	0.0
Scope 3 - Business Travel [tonCO2e]	779.0	0.0	779.0
TOT.	63,261.8	1,273.9	**64,535.7**

The carbon credits purchased were generated by the "emission reduction" projects listed below, which not only contribute to reduce emissions, but also create value through:

- The production of clean energy from landfill gas;
- The protection of health thanks to the capture of methane that would otherwise be released into the atmosphere;
- Social benefits, such as job creation, development of educational programs, initiatives for gender equality and sustainable development for local communities.

1. CTL Landfill Gas Project

- Standard: Gold Standard (GS)
- Project ID: GS12062
- Credits purchased by ADR: **4.600 tonCO2e**
- Vintage: 2021
- Technology: Biogas - Landfill (Methodology ACM0001 → CCP-Approved)
- Country: Brasile
- SDG:
  - 4 - Quality education
  - 5 - Gender equality
  - 7 - Affordable and clean energy
  - 8 - Decent work and economic growth
  - 13 - Climate action

The project, developed at the "Central de Tratamento de Resíduos Leste" (CTL) landfill in São Paulo, captures and burns landfill gas, reducing greenhouse gas emissions. The biogas generated is burned through generators and the energy produced is used both to power the landfill facilities and to supply the Brazilian electricity grid, replacing energy from fossil sources. Part of the biogas is also provided to some local consumers. Operational since 2010, the plant is managed by EcoUrbis Ambiental S.A. and serves about 6 million people, reducing an average of 1,117,018 tonCO2e annually. EcoUrbis adopts ethics and compliance policies and promotes social and safety initiatives for workers and the community.

Project link: https://registry.goldstandard.org/projects/details/4095.
Credit retirement links: GSF Registry (1); GSF Registry (2); GSF Registry (3).

[1] 1 carbon credit = 1 tonCO2e
[2] Scope 2 has zero impact because all electricity is sourced externally as green energy, certified through Guarantees of Origin (GO) and accounted for according to the Market-Based approach.

2. Huizhou Landfill Gas Power Generation

- Standard: Verra (VCS)
- Project ID: VCS3348
- Credits purchased by ADR: **50.000 tonCO2e**
- Vintage: 2021
- Technology: Biogas - Landfill (Methodology ACM0001 → CCP-Approved)
- Country: Cina

The project is financed and managed by Shenzhen PhasCon Technologies Co., Ltd. and involves capturing landfill gas that, in the absence of this intervention, would be released into the atmosphere. The gas is then used for electricity generation. The energy produced is fed into the "China Southern Power Grid" (CSPG), replacing energy generated by coal-fired power plants.

Project link: https://registry.verra.org/app/projectDetail/VCS/3348.
Credit retirement links: Verra Registry (1); Verra Registry (2).

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3. Yangdong Landfill Gas Power Generation

- Standard: Verra (VCS)
- Project ID: VCS3625
- Credits purchased by ADR: **10.000 tonCO2e**
- Vintage: 2021
- Technology: Biogas - Landfill (Methodology ACM0001 → CCP-Approved)
- Country: Cina

The purpose of the project is to use landfill gas (LFG), composed mainly of methane, for electricity generation. The project includes an LFG collection system, a pre-treatment facility and a power generation system. The total installed capacity is 5.0 MW, divided into 10 generators of 500 kW each. The collected gas is used to power internal combustion engines, generating approximately 207,912 MWh of electricity during the first 7 years of certification, intended to be fed into the "China Southern Power Grid" (CSPG). The average annual emission reductions are estimated at 181,670 tonCO2e, for a total of 1,271,691 tonCO2e over 7 years.

Project link: https://registry.verra.org/app/projectDetail/VCS/3625.
Credit retirement link: Verra Registry.