

June 2023

Flight Path to Net Zero Carbon Emissions

IMS, MNT, STR-FM, HRT



Aktion | Chania | Kerkira | Kavala | Kefallinia | Kos | Mikonos | Mitilini |
Rodos | Samos | Santorini | Skiathos | Thessaloniki | Zakynthos

A Subsidiary of Fraport AG

Fraport Regional Airports of Greece Management Company S.A.

The Context

“Net Zero Carbon Emissions” is the state our global civilization needs to reach by 2050 at the latest, in order to avoid the most acute repercussions of Climate Change (ACI)

Net Zero is also explained as the state *“when anthropogenic CO₂ emissions are balanced globally by anthropogenic CO₂ removals over a specified period”* (ACI)

To achieve that, we need to either stop producing new CO₂ or compensate for any emission by pulling out the already existing emissions from the Earth’s atmosphere (ACI)

To achieve
this, airports
can:

- Reduce energy and fuel consumption through the design of new energy-efficient infrastructure and the retrofitting of existing infrastructure.
- Invest in low energy vehicles and equipment.
- Switch to zero-carbon energy and fuel sources.
- To reduce any residual emissions, airports have to use the so-called Negative Emissions Technologies (NETs). NETs rely on natural processes (“carbon sinks” such as forests) or dedicated technologies (carbon capture and storage) to eliminate CO₂ from the atmosphere.
- **Offsetting in its current format is not an acceptable path for achieving Net Zero.**

Current Commitments of Fraport Greece



Commitments to the ACI:

- Participated in the [Toulouse Declaration on future sustainability and decarbonisation of aviation](#) (February 2021).
- Committed to [ACI's "Net Zero Initiative"](#) by 2050 (May 2021).



New CO₂ Reduction Targets (Scope 1 and 2) in Fraport Group Level (June 2023):

- Base year: 2018 (1st year of full operation of the 14 airports)
- -42% by 2030 (19.241 t CO₂)
- -80,7% by 2040 (6.414 t CO₂)
- Net Zero by 2045



CO₂ Reduction Measures/Actions/Effects



For the 2030 targets:

- Photovoltaic (PV) Parks in some airports (SKG, KVA, ZTH, CHQ, etc.)
- Energetic Optimization of Terminals (LED, Air-Curtains, VSD at AHUs)
- Terminal Energy Management System (EnMS)
- Progressive defossilization of vehicle fleet (HQ and airports)
- Energy reduction (good practices) campaign for staff and Airport Users
- Alternative mobility initiatives (e.g. HQ shuttle bus, etc.)
- Sustainable design of new expansions

Attention: Increase of CO₂ emissions due to new JTR expansion



CO₂ Reduction Measures/Actions/Effects



After 2030 (indicative):

- Photovoltaic Parks in all airports
- Defossilisation of all vehicle fleet (HQ and airports)
- Green energy above % national mix
- Charging stations for public electric cars
- Charging stations for GHSPs' fleet, car rentals, etc.
- Optimization of building ventilation systems (under assessment)
- GPU installation (under assessment)
- Use of SAF or H₂ technologies (under assessment)
- Utilization of geothermal field of Santorini (for JTR) (under assessment)
- Electric aircrafts (to be assessed)



Gute Reise! We make it happen

Fraport Greece

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