

Reference year 2024

ENVIRONMENTAL BULLETIN OF AKTION AIRPORT (PVK)

Issue Year: 2025

Fraport Regional Airports of Greece A.S.A.

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1. INTRODUCTION

1.1 Location

Aktion (PVK) airport is located in the west part of Sterea Ellada, at a distance of 4 km from Preveza, 16km from Vonitsa and 20 km from Lefkada. Cape Aktio is surrounded to the east by Amvrakikos Gulf and to the west by the Ionian Sea.

1.2 Administration

The airport administratively belongs to the Regional Unit (RU) of Aitolokarnania of the Region of West Greece and the Ionian and more specifically to the Municipal Unit of Anaktorio of the Municipality of Aktio – Vonitsa, Local Community of Agios Nikolaos Vonitsis.

1.3 Environmental licensing

Approved Environmental Terms

E.T. Decision Reference number	11543/07.03.2017
E.T. Amendment Decision Reference Number	50502/08.12.2017
E.T. Amendment Decision Reference Number	133953/8672/16.12.2022

1.4 Airport Basic Data

Airport name IATA / ICAO	PVK / LGPZ
Airport location – Airport Reference Point (ARP)	Latitude: 38° 55' 32" N Longitude: 20° 45' 55" E
Altitude	3.32m
Number of runways	2
Operation hours (summer)	Monday / Saturday 06:30 – 23:00 Tuesday / Wednesday / Thursday 06:30 – 21:45 Friday 06:30 – 23:00 Sunday 08:30 – 22:30
Operation hours (winter)	Monday / Wednesday / Thursday / Friday / Sunday 08:30 – 16:30 Tuesday / Saturday 09:30 – 18:30



Runways	Length/Width	Code			
Runway	2,871m x 45m	07L-25R			
Runway	2,871m x 45m	07L-25R			
Full length of parallel taxiway	2,974m				
Number of taxiways	3				
Apron capacity	A	B	C	D	E
	-	-	3	-	1 (MARS)



Employees	High season (31.08.2024)	Low season (30.11.2024)
Fraport Greece (FG) employees	30	21
Employees of other companies	333	128



Terminal	
Total area (m ²)	9.649



Other buildings and service/storage areas	
RFF Station (m ²)	Housed in HAF facilities



Parking Areas	
Car parking spaces	81
Bus parking spaces	14
Taxi parking spaces	17

1.5 Airport facilities

1.5.1 Fuel Handlers

Number of fuel handler companies

<i>Number of fuel handler companies operating at the Airport</i>	1
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<i>Installations inside the airport</i>	<i>EKO</i>	<i>GISSCO</i>	<i>HAFCO</i>
<i>Environmental Management System (EMS)</i>	<i>Not operating at the airport</i>	YES	<i>Not operating at the airport</i>

1.5.2 Ground Handlers

Number of ground handler companies

<i>Number of ground handler companies operating at the Airport</i>	3
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<i>Installations inside the airport</i>	<i>SKYSERV</i>	<i>SWISSPORT</i>	<i>GOLDAIR</i>
<i>Environmental Management System (EMS)</i>	YES	YES	YES

2. TRAFFIC DATA STATISTICS

2.1 Annual Traffic Data

Annual Traffic Data for the year 2024



Overall Annual Air Traffic Movements¹
6.712



Annual passenger traffic
824.894



Annual cargo transferred (tn)
0

Percent of increase or decrease in relation to the previous year



0,4%



0,9%

-

¹ Military and training flights not included.

Aircraft types

Prevailing aircraft types for domestic flights

Aircraft type	No. of flights
AT45	600
AT76	58
AT75	30
A109	22
E55P	12
C56X	10
A139	8
BE20	7
H25B	6
E35L	6
Other	95

Prevailing aircraft types for international flights

Aircraft type	No. of flights
B738	2.235
A320	1.451
A321	428
A20N	392
A319	306
DH8D	162
A21N	134
B739	88
C56X	48
E55P	42
Other	572

2.2 High season traffic data

High season traffic data (June-September)

Highest traffic month	July
Air traffic movements during the month with highest traffic	1454
Air traffic movements daily average number during the month with highest traffic	47

2.3 Low season traffic data

Low season traffic data (October-May)

Lowest traffic month	January
Air traffic movements during the month with lowest traffic	56
Air traffic movements daily average number during the month with lowest traffic	3

3. AIRCRAFT NOISE

3.1 Noise measurements during the reference year

Have noise measurements at the airport's surrounding area been performed during the reference year? **NO**

Noise complaints: 0

Summary of measurement results

Noise levels are monitored according to the airport's monitoring program and new approved environmental terms.

According to approved Environmental Terms, in 2024 noise measurement was not foreseen.

3.2 Noise levels calculation based on noise simulation software

Aircraft noise levels calculation based on noise simulation software **NO**

Summary of results

Noise levels are monitored according to the airport's monitoring program and approved environmental terms.

In 2024 noise modeling was not foreseen.

4. AIR QUALITY

4.1 Air quality measurements during the reference year

Have air quality measurements at the airport's surrounding area been performed during the reference year? **NO**

Summary of results

Air quality is monitored according to the airport's monitoring program, and the new approved environmental terms.

No air quality measurements are foreseen in 2024.

4.2 Air pollutants emission and dispersion modelling

Calculation of air pollutants concentrations based on an emission and dispersion modelling software **NO**

Συνοπτική παρουσίαση αποτελεσμάτων

Air quality is monitored according to the airport's monitoring program.

No air quality modeling is foreseen in 2024.

5. WASTE MANAGEMENT

<i>Waste</i>	<i>Collection</i>	<i>Management/Disposal</i>
<i>Recyclables (paper, plastic, metals, glass)</i>	<i>Separate collection by the Municipality of Vonitsa</i>	<i>Disposal in material recovery facility for recycling</i>
<i>Residues (Mixed Waste) and Bulky Waste</i>	<i>Collection by the Municipality of Vonitsa</i>	<i>Disposal in landfill</i>

Notes:

1. Regarding the different categories of the MSW (recyclables, mixed waste, bulky waste), the Airport Users handle their waste together with Fraport Greece A (central management).
2. Regarding the "alternative management" waste categories (Waste lubricant oil WLO, WEEE, etc.):
 - i. Waste Lubricant Oil (WLO): Collection and management by authorized collector "CYTOP S.A."
 - ii. Waste Electrical & Electronic Equipment (WEEE): Collection and management by alternative management system "Appliances Recycling S.A."
 - iii. Accumulators: Collection and management by alternative management system "Re-Battery S.A."
 - iv. Small batteries: Collection and management by alternative management system "AFIS S.A."
 - v. Used tires: Collection and management by alternative management system "ECOELASTIKA S.A."

3. The total quantities of the hazardous waste further to the above-mentioned and produced at the airport, are managed by licensed private companies which have a contract with Fraport Greece A, after Tender according to the provisions of the legislation in force.
4. In the year 2024, Fraport Greece A in PVK managed a total of 0,39 tons of Hazardous waste (PVK FG A 0,39 tn, third parties 0 tn).
5. The total quantities of the produced waste by category resulting from all activities of the airport, the collectors and final recipients, are recorded by Fraport Greece A and submitted in the Electronic Waste Registry of the Ministry for Environment and Energy via the Annual Waste Producer Report according to the provisions of the legislation in force.

6. ECOSYSTEM AROUND THE AIRPORT

6.1 Flora – Fauna



Flora

Are there protected zones of vegetation/habitats in the broader airport area?

YES

(if YES) Short description: In the broader area of Amvrakikos bay, sites that belong to the "NATURA 2000" network exist, such as the broader area of the delta of the rivers Louros and Aracthos, the lagoons (Rodia, Tsoukalio, Logarou, and other smaller ones), and the marine area that surrounds them (GR2110001, GR2110004), as well as the lakes Voulkaria and Saltini.



Fauna

Are there protected species of fauna/birds in the broader airport area?

YES

(if YES) Short description: The protected bird species that have been observed at the vicinity of Aktio Airport since April 2017 are presented below:

White stork (Ciconia ciconia)

Griffon vulture (Gyps fulvus) at Kleisoura area, southeast of Aktio Airport

The field survey dates will gradually increase during the following years.

7. WILDLIFE HAZARD MANAGEMENT

Wildlife strikes and wildlife hazard management measures

Wildlife species that suffered a strike	Strikes (%)
	-

Wildlife strike risk mitigation measures

The Hellenic Air Force (HAF) is responsible for the management of bird strike risk.

8. CULTURAL HERITAGE

Have new cultural heritage properties been discovered during the reporting period?

NO

9. RESOURCES CONSUMPTION



9.1 Energy consumption

Energy consumption (monthly electric energy consumption, in Kwh)

Total annual electric energy consumption (in Kwh)	1.051.070,34*
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*Third parties' consumption is excluded.



9.4 Fuel consumption for generator

Fuel consumption

Total annual consumption (lt)	984,66
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9.5 Water consumption

Water consumption

Total annual consumption (m³)	11.053,00*
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*The annual consumption quantity corresponds to data from the Airport's maintenance department.



9.2 Fuel consumption

Fuel consumption

Number of FG vehicles at the airport	9	
Total annual fuel consumption	Diesel (lt)	2.472,90
	Unleaded gasoline (lt)	4.709,39



9.3 Heating oil or natural gas consumption

Heating oil or natural gas consumption

Total annual heating oil consumption (lt)	-*
Total annual heating natural gas consumption (m³)	N/A

*Heating and air conditioning is performed via heat pumps.

10. GREENHOUSE GAS EMISSIONS & CARBON FOOTPRINT

Greenhouse gas emissions that were included in the carbon footprint calculation are the CO₂, CH₄ & N₂O emissions included in scope 1 & 2 of the GHG protocol:

- Scope 1: Direct GHG emissions that occur from sources that are owned and/or controlled by the airport,
- Scope 2: Indirect GHG emissions from the generation of purchased electricity, steam, heat or cooling consumed by the airport.

Source Flows	Total CO ₂ e Emissions (t) 2024	
	Location based	Market based
Direct emissions from heating fuel (scope 1)	0,0	0,0
Direct emissions from fuel used for fleet vehicles (scope 1)	17,8	17,8
Direct emissions from fuel used for generators (scope 1)	2,6	2,6
Direct emissions from refrigerants (scope 1)	0,0	0,0
Direct emissions from wastewater treatment plant	1,4	1,4
Indirect emissions from electricity consumption (scope 2)	526,2	384,4
Total (t)	547,9	406,1
Kg CO₂e /passenger	0,66	0,49

Notes

Fraport Greece A is committed to the monitoring, management and reduction of its airports carbon footprint.

In order for this target to be achieved:

- Direct and indirect carbon emissions from all the emission sources in the airports' boundaries are calculated and reported, based on the GHG Protocol (scope 1 & 2)
- The airport is certified according to ACA (Airport Carbon Accreditation), Level-1.

11. HUMAN CONSUMPTION WATER MONITORING PROGRAM

Human consumption water quality

<i>Water supply (public water network or airport's boreholes)</i>	<i>Municipal network of Lefkada & Aetoloakarnania</i>
<i>Is sampling of the airport's water network performed?</i>	<i>YES</i>
<i>(if YES) Sampling frequency</i>	<i>Quarterly</i>

Summary of results

The results of the microbiological and chemical analyses show that the parameters analyzed as regards the airport's water network are within the legislative limits defined by the Ministerial Decision Δ1(δ)/ΓΠ οικ. 27829/2023 (GG 3525/B` 25.5.2023) regarding the quality of human consumption water.

12. RAINWATER

RAINWATER (collection, treatment disposal and recipient)

Area	Collection/treatment/disposal	[YES/ NO]
Apron and manoeuvring area	Collected in drainage ditches leading to the sea	YES
Other runoffs (runway etc.)	Collected in drainage ditches leading to the sea	YES
Treatment of rainwater by oil-separator		NO
Rainwater quality		
Is sampling of the airport's rainwater performed?		YES
(if YES) Sampling frequency		Yearly
Parameters analyzed: pH, conductivity, TSS, DO, NO ₃ , NO ₂ , Oil & grease, BOD, COD, Total Petroleum Hydrocarbons (TPH), PAHs, BTEX, Heavy metals, Detergents		

Summary of results

Surface rainwater quality is monitored according to the airport's monitoring program. Due to the absence of designated recipients and relevant national quality limits for surface rainwater, the Environmental Health & Safety Guidelines of the International Finance Corporation (IFC) are adopted. Surface rainwater monitoring for 2024, was performed and quality of the water is in accordance with the IFC guidelines. However, the presence of pathogenic microorganisms is recorded, and the monitoring of the phenomenon will continue.

13. GROUNDWATER AND/OR SOIL AND/OR SOIL GAS MONITORING

Groundwater and/or soil and/or soil gas quality

<i>Is sampling of the airport's groundwater and/or soil and/or soil gas performed?</i>	YES
<i>(if YES) Sampling frequency</i>	Yearly
<i>Parameters analyzed: TPH, BTEX, MTBE</i>	

Summary of results

Groundwater monitoring within airport boundary - Fraport Greece

Groundwater quality is monitored according to the airport's monitoring program. The results show no exceedances.

Groundwater and/or soil and/or soil gas monitoring at fuel farms – Fuel Handlers

According to the approved environmental terms, monitoring of groundwater and soil from the Fuel Handlers is performed every two years, so for reference year 2024 there are no results.

14. SEWAGE TREATMENT AND DISPOSAL



Sewage

Sewage network to the municipal wastewater treatment plant (WWTP)	NO
Autonomous airport's wastewater treatment plant (WWTP)	YES*

* In year 2024, FG's environmental monitoring observed certain exceedances of treated effluent parameters, for which appropriate corrective actions were taken to restore the operation of the unit within limits from July onwards. From July and onward the unit operated within limits.

Blue water

Collection and disposal: Collection in watertight tank and disposal to the municipal sewage network.

Waste water treatment plant description (where applicable)

Description of characteristics and condition of the airport's WWTP including possible problems. Type and frequency of the effluent quality measurements.

Degree of treatment of airport's WWTP	Tertiary treatment & chlorination
Treatment method	Prolonged ventilation
Disposal of treated wastewater	Drain ditch to the Ionian Sea based on Joint Ministerial Decision KYA 328925/7912 (Government Gazette 35/Δ/2017)
Sludge disposal	Landfill
Sampling frequency of WWTP effluent	Monthly based on the decision determining the recipient
Parameters analyzed	BOD, COD, TSS, T. Coliforms, E.coli, pH, Dissolved Oxygen, Grease and Oils, Residual Chlorine
Summary of quality of WWTP effluent	The WWTP effluent quality is within the limits set out in the decision specifying the recipient

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