

Environmental Bulletin of Skiathos Airport “Alexandros Papadiamantis” (JSI)

Reference year 2023

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Fraport Regional Airports of Greece B.S.A.



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1. Introduction

1.1 Location

The airport of Skiathos with IATA code JSI has been operating since 1972 and is located at approximately 1km (north-east) from the town of Skiathos and at a very short distance of approximately 20m from the coastline of the island.

1.2 Administration

The airport administratively belongs to the Municipality of Skiathos, of the Regional Unit of Sporades, Region of Thessaly.

1.3 Environmental licensing

Approved Environmental Terms

E.T. Decision Reference number	68597/24.06.1999
	106193/11.07.2008
	120306/11.01.2010
E.T. Amendment Decision Reference Number	37970/22.12.2017
	5778/13.03.2018
	6306/20.03.2018
	116025/7666/07.11.2022

1.4 Airport Basic Data

Airport name IATA / ICAO	JSI/LGSK
Airport location – Airport Reference Point (ARP)	Latitude: 39° 10' 39" N Longitude: 23° 30' 13" E
Altitude	16.36m
Number of runways	1
Operation hours (summer)	07:00 – 23:00
Operation hours (winter)	Monday/Tuesday/Friday/Saturday 13:30– 20:00 Wednesday/Thursday/Sunday CLOSED



Runways	Length/Width	Code			
Runway	1,628m x 30m	02/20			
Full length of parallel taxiway	-				
Number of taxiways	3				
Apron capacity	A	B	C	D	E
	-	-	3	1	-



Terminal	
Total area (m ²)	9.526



Other buildings and service/storage areas	
RFF Station (m ²)	1.144



Employees	High season (31.08.2023)	Low season (30.11.2023)
Fraport Greece (FG) employees	25	20
Employees of other companies	272	136

Parking Areas	
Car parking spaces	85
Bus parking spaces	12
Taxi parking spaces	20

1.5 Airport facilities

1.5.1 Fuel Handlers

Number of fuel handler companies

Number of fuel handler companies operating at the Airport	1
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Installations inside the airport

	EKO	GISSCO	HAFCO
Environmental Management System (EMS)	YES	Not operating at the airport	Not operating at the airport

1.5.2 Ground Handlers

Number of ground handler companies

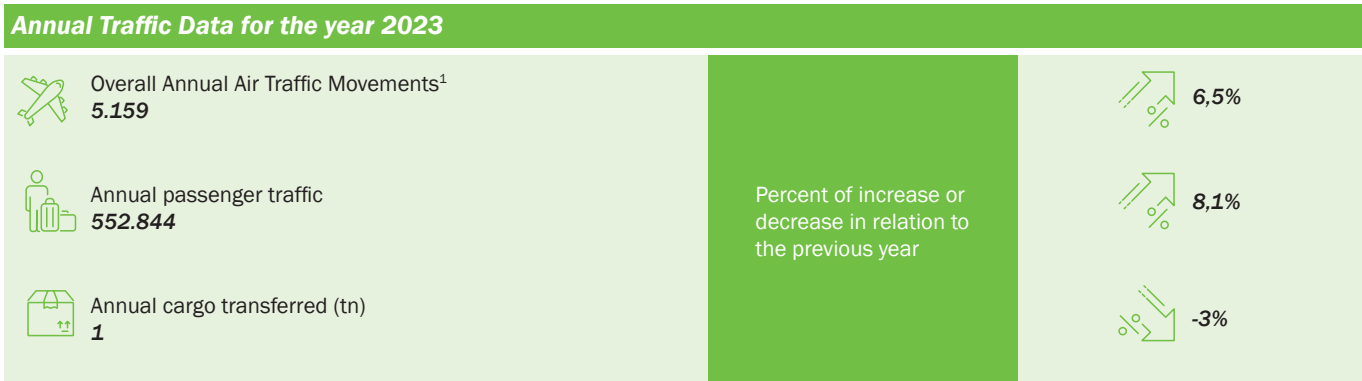
Number of ground handler companies operating at the Airport	3
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Installations inside the airport

	SKYSERV	SWISSPORT	GOLDAIR
Environmental Management System (EMS)	YES	YES	YES

2. Traffic data statistics

2.1 Annual Traffic Data



¹ Military and training flights not included.

Aircraft types

Prevailing aircraft types for domestic flights

Aircraft type	No. of flights
AT76	764
AT45	116
AT75	82
AT72	82
EC35	18
GLEX	17
A109	12
PC12	11
B407	10
AT76	764
Other	134

Prevailing aircraft types for international flights

Aircraft type	No. of flights
B738	1.987
A320	580
A20N	213
A321	206
A319	203
A21N	149
E190	90
AT76	76
DH8D	68
GLEX	27
Other	234

2.2 High season traffic data

High season traffic data (June-September)

Highest traffic month	August
Air traffic movements during the month with highest traffic	1.241
Air traffic movements daily average number during the month with highest traffic	40

2.3 Low season traffic data

Low season traffic data (October-May)

Lowest traffic month	February
Air traffic movements during the month with lowest traffic	34
Air traffic movements daily average number during the month with lowest traffic	1

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. For the 2023, no measurements were performed.

3.2 Noise levels calculation based on noise simulation software

Aircraft noise levels calculation based on noise simulation software	NO
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Summary of results

For the year 2023, no noise simulation was performed.

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 measurement results

Air quality is monitored according to the airport's monitoring program, and the new approved environmental terms.
For year 2023, no air quality measurements were performed.

4.2 Air pollutants emission and dispersion modelling

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

Summary of results

Air quality is monitored according to the airport's monitoring program.
For year 2023, air quality modeling wasn't foreseen.

5. Waste management

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

Notes:

1. Regarding the different categories of the MSW (recyclables, mixed waste, bulky waste), the Airport Users handle their waste together with Fraport Greece B (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 B, after a tender process according to the provisions of the legislation in force.

4. In the year 2023, Fraport Greece B managed a total of 16.09 tons of Hazardous waste (FG A 1.98 tn, third parties 14.11 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 B 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: Skiathos Airport "Alexandros Papadiamantis" is close to the Natura 2000 site:

- GR1430009 Islands of Aspronisos, Argkos, Maragkos, Repi, Tsoukriá, Tsougkriaki and Sea Area of Islands Skiathos and Skopelos (Area:20,479.40ha)
- GR1430003 Skiathos: Koukounaries and Evryteri Thalassia Periochi (Area: 85.71ha)



Fauna

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

YES

(if YES) Short description: Skiathos Airport "Alexandros Papadiamantis" is near to the:

- Important Bird Area GR198: Skiathos and Skopelos islands (Area: 20603.72ha)
- Important Marine Mammal Area Northern Sporades (Area: 11062300ha) where *Monachus monachus* is recorded

The protected bird species that have been observed at Skiathos airport since April 2017 are presented below:

Black-crowned night heron (*Nycticorax nycticorax*), Booted eagle (*Hieraetus pennatus*), Collared pratincole (*Glareola pratincola*), Eurasian skylark (*Alauda arvensis*), Eurasian stone-curlew (*Burhinus oedicephalus*), European shag (*Phalacrocorax aristotelis*), Ferruginous duck (*Aythya nyroca*), Garganey (*Anas querquedula*), Great egret (*Casmerodius albus*), Great white pelican (*Pelecanus onocrotalus*), Lapwing (*Vanellus vanellus*), Lesser kestrel (*Falco naumanni*), Marsh harrier (*Circus aeruginosus*), Mediterranean gull (*Larus melanocephalus*), Sandwich tern (*Sterna sandvicensis*), Short-toed snake eagle (*Circaetus gallicus*), Slender billed gull (*Chroicocephalus genei*), Squacco heron (*Ardeola ralloides*), Yelkouan shearwater (*Puffinus yelkouan*)

7. Wildlife hazard management

Wildlife strikes and wildlife hazard management measures

Wildlife species that suffered a strike	Strikes (%)
Small passerines	66%
Gulls	17%
Pheasants	17%

Wildlife strike prevention measures

The presence and behavior of wildlife species at Skiathos airport is monitored in regular intervals, daily, from dawn to dusk. Some of the wildlife control methods applied at Skiathos airport are: distress calls (bioacoustics), digital sounds, anti-bird laser, etc. Preventive long-term actions that are mainly related to habitat management measures (e.g. grass cutting, water body management) are also taken to further reduce the presence of species constituting a risk to flight safety. In addition, a NOTAM is published and regularly updated.

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)	456.349,23*
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*Third parties' consumption is excluded

9.2 Fuel consumption

Fuel consumption

Number of FG vehicles at the airport	10
	Diesel (lt) 9.510,43
Total annual fuel consumption	Unleaded gasoline (lt) 143,57

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 (m ³)	N/A

*Heating and air conditioning is performed via heat pumps

9.4 Fuel consumption for generator

Fuel consumption

Total annual consumption (lt)	1.398,00
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9.5 Water consumption

Water consumption

Total annual consumption (m ³)	4.816,00
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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 (t) Emissions (t)
	2023
Direct emissions form heating fuel (scope 1)	0,0
Direct emissions from fuel used for fleet vehicles (scope 1)	25,7
Direct emissions from fuel used for generators (scope 1)	3,7
Indirect emissions from refrigerants (scope 1)	0,0
Indirect emissions from electricity consumption (scope 2)	243,7
Total (t)	273,1
Kg CO₂e /passenger	0,49

Notes

Fraport Greece B 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

Water supply (public water network or airport's boreholes)	Airport borehole
Is sampling of the airport's water network performed?	YES
(if YES) Sampling frequency:	Quarterly

Summary of results

The results of the microbiological and chemical analyses of the water supplied from the airport's borehole show that the water parameters analyzed are within the legislative limits defined by the Ministerial Decision Γ1 (δ)/ΓΠ οικ. 67322/ GG 3282 B/19-9-2017 regarding the quality of human consumption water. The other results of the microbiological and chemical analyses show that the parameters analyzed as regards the water network of Terminals T1 & T2 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. For the months October to December 2023, the water showed exceedances in Ferrum, making it unsuitable for human consumption. The phenomenon was monitored and under investigation. Airport users were informed accordingly.

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		YES

Rainwater quality

Is sampling of the airport's rainwater performed?	YES
(if YES) Sampling frequency:	Annual
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 2023, was performed and the quality of the water is in accordance with the IFC guidelines. However, presence of hydrocarbons (C₁₀-C₄₀) (µg/l) is recorded, in one sampling point, which will be further investigated.

13. Groundwater and/or soil and/or soil gas monitoring



Groundwater and/or soil and/or soil gas quality

Is sampling of the airport's groundwater and/or soil and/or soil gas performed?

YES

(if YES) Sampling frequency:

Annual

Parameters analyzed: Volatile hydrocarbons, aliphatic, aromatic and chlorinated (soil gas)

Summary of results

Groundwater monitoring within airport boundary - Fraport Greece

The results of the analyses from the airport's borehole indicate that no pollution is present.

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

According to the approved environmental terms, monitoring of groundwater was performed by EKO (2022). The results are satisfactory with no exceedances present.

14. Sewage treatment and disposal



Sewage

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

Blue water

Collection and disposal: Collection in watertight tank and disposal to the municipal sewage network.
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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	N/A
Treatment method	N/A
Disposal of treated wastewater	N/A
Sludge disposal	N/A
Sampling frequency of WWTP effluent	N/A
Parameters analyzed	N/A
Summary of quality of WWTP effluent	N/A

