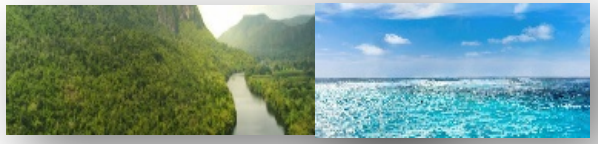


The Art of Carbon Balance

Carbon Balance Report

CBR-2024-0000-0104

Pilatus Aircraft, Switzerland

CONTENT PAGE

1. Carbon Balance Report - Executive Summary

CBR-2024-0000-0104

Emitter:	Pilatus Aircraft Ltd.
Emitter ID:	E1968-0000-0405
Address:	Pilatusstrasse 1, 6371 Stans, Switzerland
Specific Carbon Footprint ID:	OXI-SCF E1968-0000-0405-20240529
Completed:	05 June, 2024

EXECUTIVE SUMMARY

Specific Carbon Footprint Name:	**Participation Emissions for EBACE 2024**
Provided by:	simon.hofstetter@pilatus-aircraft.com

Years	**2024**	
Total CO2e Footprint	**28.731t**	
Total Carbon Footprint	**7.84t**	
Scope 1	**yes**	(Scope 2: no, Scope 3: no)

Total Carbon Footprint	**7.84 metric tons**
Balanced by GAYA:	**30**
Achieved Carbon Balance Ratio:	**382.65%**

2. Specific Carbon Footprint Data

NAME: **PARTICIPATION EMISSIONS FOR EBACE 2024** ID: OXI-SCF E1968-0000-0405-20240529

Disclaimer: OXI-ZEN does not take responsibility for the accuracy nor veracity of the Specific Carbon Footprint Data provided and submitted by the Emitter and their data provider.

PILATUS

Pilatus Aircraft Ltd

Emission Report EBACE Partizipation PILATUS

Document control	
Author	Simon Hofstetter, ENS
Version	1
Status	Final
Number of pages	5

PILATUS

Table of Contents

1 Background

PILATUS strives to make a sustainable difference at EBACE by joining the EBACE2024 Exhibitor Sustainability Pledge initiative. Actions like waste reduction, water and energy conservation, and sustainable procurement can have a big impact when multiplied across exhibitors. To do so, PILATUS is committed to following a number of sustainable practices at EBACE.
In addition, PILATUS wants to compensate the emissions caused by travel, hotel stays and display aircraft movements. Therefore, the emissions are listed and derived in this document.

2 Emission Derivation

2.1 Assumptions

Included in the derivation are:

- Travel from PILATUS employees to EBACE and back
- Display aircraft movements of two PC-12 and one PC-24 from Buochs (NW, Switzerland) to Geneva (GE, Switzerland) and back
- Hotel stays of PILATUS employees in Geneva (GE, Switzerland)

Not included in the derivations are:

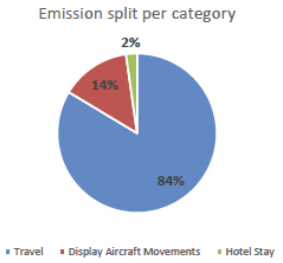
- Food & beverage consumed by the PILATUS employees at EBACE
- Taxi/transport between hotel and Palexpo of PILATUS staff at EBACE (mitigated by the fact that the selected hotel is in walking distance of Palexpo and thus most of the day-to-day commuting is considered emissions free)
- EBACE's own emissions such as electricity use, fuel use, heating/cooling associated with the rental of Palexpo facilities

2.2 Emissions

Table 1 Overall and split per category CO_2e Emissions for the partizipation from PILATUS at EBCAE

Category	Emissions	Unit
Travel	24'023	$kgCO_2e$
Display Aircraft Movements	4'068	$kgCO_2e$
Hotel Stay	640	$kgCO_2e$
	28'731	**$kgCO_2e$**

Figure 1 Split of the CO_2e emissions between the different categories



Annex 1 Emissions from Traveling

Table 2 CO_2e emissions coming from travel of the PILATUS employees to Geneva and back

Amount	Average distance km	Source Distance	Assumption Travel	Haul type	Emission Factor	Emission Factor Unit	Source	Overall KM	Emissions	Unit
5	8256	Link distance Broomfield - Geneva	Broomfield - Genva	long	0.26	$kgCO_2e$/passenger km	Defra 2023/ Business Travel Air / Long Haul / Average Passenger	82560	21'571	$kgCO_2e$
2	747	Link distance London - Geneva	London - Geneva	short	0.19	$kgCO_2e$/passenger km	Defra 2023/ Business Travel Air / Short Haul / Average Passenger	2988	556	$kgCO_2e$
3	750	Link distance Prague - Geneva	Prague - Geneva	short	0.19	$kgCO_2e$/passenger km	Defra 2023/ Business Travel Air / Short Haul / Average Passenger	4500	837	kgCO2e
3	526	Link distance Siegerland - Geneva	Siegerland - Geneva	short	0.19	$kgCO_2e$/passenger km	Defra 2023/ Business Travel Air / Short Haul / Average Passenger	3156	587	$kgCO_2e$
1	1271	Link distance Warsaw - Geneva	Warsaw - Geneva	short	0.19	$kgCO_2e$/passenger km	Defra 2023/ Business Travel Air / Short Haul / Average Passenger	2542	473	$kgCO_2e$
									24'023	**$kgCO_2e$**

Annex 2 Emissions from Display Aircraft Movements

Table 3 CO_2e emissions coming from display aircraft movements of 2 PC-12 and one PC-24 from Buochs to Geneva

Amount	Type	Route	Fuel use	Unit	Emission Factor	Emission Factor Unit	Soruce	Overall l used	Emissions	Unit
2	PC-12	Buochs - Geneva	200	l	2.54	$kgCO_2e/l$	Defra 2023/ Fuel / Aviation turbine fuel	800	2'034	$kgCO_2e$
1	PC-24	Buochs - Geneva	400	l	2.54	$kgCO_2e/l$	Defra 2023/ Fuel / Aviation turbine fuel	800	2'034	$kgCO_2e$
									4'068	$kgCO_2e$

Annex 3 Emissions from Hotel Stay

Table 4 CO_2e emissions coming from Hotel Stays of the PILATUS employees in Geneva

Amount	Unit	Emissionsfactor	Emission Factor Unit	Emission Factor Source	Emissions	Unit
97	Night	6.60	$KgCO_2e$/per room and night	Defra 2023 Hotel Stay Switzerland	640	$kgCO_2e$

3. Science-Verified Carbon Sequestration Data

Nativa Capital - Portugal			
Convertor ID: C1968-0000-0323			
Sink Name: Alegrete Reguengo	**Current**	**2020**	**2021**
Sink ID: S1960-0000-0434			
Size (hectares)	**122.96**		
Number of typical regional Tree & Shrub Types	35		
Above Ground Woody Carbon (tons)	5'556		
Below Ground Woody Carbon (tons)	2'081		
Soil Organic Carbon (tons)	24'967		
MODIS NPP		818.81	1047.00
OXI Coefficient		0.7	0.7
Total GAYA sequestered		**573**	**733**
GAYA used for Carbon Balance		**30**	

Scientific Carbon Sequestration Assessment Certificates

OXÏ-ZEN

Independent Science Verification

RESTOR Network Member: OXI-ZEN
- Swiss Federal Technical University Zürich - ETHZ
- The Crowther Lab

RESTOR

ETH zürich | CROWTHER LAB

https://restor.eco/sites/d224dc58-46c5-4ab6-a817-82be2d3c4325/?lat=39.29654627630385&lng=-7.362584430000003&zoom=14

Terrestrial Carbon Sequestration Analysis based on following sources:
The Crowther Lab - ETHZ / RESTOR / Crowther Lab / NASA / MODIS - TERRA NET

Data Set Resolution:
One (1) Green GAYA = One (1) metric ton scientifically assessed terrestrial carbon sequestration over 365 days

SDG Profile:
SDG 8
SDG 13
SDG 15
SDG 17

Certificate N°
CSC-2020-0000-0234

OXÏ-ZEN

Convertor Name
Nativa Capital
C1968-0000-0323

CERTIFICATE AWARDED TO:

- Nativa Capital -

as part of

Scientific Carbon Sequestration Assessment Certificate - SCSAC

Sink Name
Alegrete Reguengo

Sink ID
S1960-0000-0434

Sink Type
TERRESTIAL

Approved Sink Manager
Carlos Gomes / Nativa Capital

Total Number of GAYAs Issued
573

Number of Green GAYAs Issued
573

Number of Blue GAYAs Issued
0 GAYA

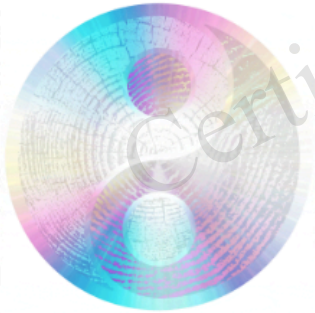
Number of White GAYAs Issued
0 GAYA

Year of Sequestration
2020

Net Primary Productivity (NPP)*
818.81

Effective NPP Correction Factor
0.70

Total Area in Hectares
122.96



Date of Assessment
27-Mar-2024

Date of Issuance
03-Apr-2024

Terrestrial Carbon Sequestration Analysis based on following sources: The Crowther Lab - ETHZ / RESTOR / GOOGLE / NASA / MODIS - TERRA NET
One (1) Green GAYA = One (1) metric ton scientifically assessed terrestrial carbon sequestration over 365 days

To check authenticity of this certificate please contact
science-verifiedcarbon@oxi-zen.io

4. TOTAL GAYA used for Carbon Balance

Convertor:	**Nativa Capital SGOIC S.A.** Rua Luciano Cordeiro 123 - 1esq 1050-139 Lisboa, Portugal
Convertor ID:	C1968-0000-0323
Sink Name:	Alegrete Reguengo
Sink ID:	S1960-0000-0434
Vintage	**2020**
GAYA ID	*From:* G1960-0000-0434-2020-0000000001 *To:* G1960-0000-0434-2020-0000000030
Total GAYA used:	30
TOTAL GAYA	**30**
Notes:	One (1) GAYA represents one (1) metric ton carbon sequestration over 365 days