

Sustainable Development Report 2023

PERFORMANCE DATA

Performance Data Collection and Calculation Method

Our general approach is to request data owners to confirm the accuracy of their data either through documented evidence or past operational performance. The data was approved and checked for any material errors both internally and externally

ENVIRONMENT PERFORMANCE

	Unit	Airframe	Cabin	Component	Engine	HAECO Group Total
Energy Consumption¹						
Direct energy consumption	GJ	175,016	2,108	373	66,596	244,094
Indirect energy consumption	GJ	249,781	18,327	28,565	27,116	323,789
Total energy consumption	GJ	424,797	20,435	28,938	93,712	567,883
Greenhouse Gas Emission²						
Greenhouse Gas Emissions from Direct Operations - Scope 1	kg CO ₂ e	12,048,141	109,663	58,549	4,453,887	16,670,240
Greenhouse Gas Emissions from Direct Operations - Scope 2, market-based method ³	kg CO ₂ e	30,542,024	1,879,031	4,264,389	4,211,471	40,896,915
Total Greenhouse Gas Emissions from Direct Operations (market-based method)	kg CO ₂ e	42,590,165	1,988,694	4,322,938	8,665,358	57,567,155
Other indirect (Scope 3) GHG emissions ⁴	kg CO ₂ e	212,137,000	-	26,837,000	250,769,000	489,743,000
Total GHG Emission	kg CO₂e	254,727,165	1,988,694	31,159,938	259,434,358	547,310,155
Ozone Depleting Substances						
Ozone depleting substances emitted	kg CFC-11e	-	-	0.14	-	0

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	Unit	Airframe	Cabin	Component	Engine	HAECO Group Total
Fuel						
Jet Kerosene	L	-	-	-	1,755,154	1,755,154
Diesel	L	2,631,890	-	2,922	-	2,634,812
LPG/ Propane	L	39,351	-	-	-	39,351
Unleaded Petrol	L	231,563	4,471	7,470	4,223	247,726
Towngas/ Natural Gas	MJ	43,526,809	1,951,853	-	394,390	45,873,052
Electricity						
On-site Renewable Energy Generation (Contributing to Carbon Reduction)	kWh	1,007,123	-	1,042,790	491,505	2,541,417
Refrigerant / Fire Extinguishing Agent						
Refrigerant / Fire extinguishing agent consumed	kg	667	-	18	-	685
Water						
Potable water used	m ³	284,104	12,811	18,862	29,400	345,177
Water recycled	m ³	32,215	-	401	3,774	36,390

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	Unit	Airframe	Cabin	Component	Engine	HAECO Group Total
Materials						
Paper and paper products consumed	kg	68,257	-	4,292	8,349	80,899
Waste Management						
Total Non-hazardous Waste Generated	kg	2,816,188	158,186	204,871	130,461	3,309,706
Total Non-hazardous Waste Diverted	kg	1,880,250	69,057	183,377	130,461	2,263,144
Waste diversion from landfill ratio	%	66.8%	43.7%	89.5%	100.0%	68.4%
Hazardous Waste Management						
Liquid chemical waste disposed of	L	524,998	20,233	-	19,385	564,616
Solid chemical waste disposed of	kg	872,335	3,332	-	25,399	901,066
Kerosene recycled	L	78,570	-	-	-	78,570
Recycled Chemical Waste to Liquid Chemical Waste Ratio	%	13.0%	-	-	0.0%	12.2%
Significant chemicals / oil spills	No.	-	-	-	-	-

Notes:

1. Energy consumption data was based on the amount of greenhouse gas reporting: conversion factors 2023 provided by Swire Pacific
2. The Group's GHG inventory includes carbon dioxide, methane and nitrous oxide. Its GHG emissions data is presented in carbon dioxide equivalent and was based on the reporting requirements of the "GHG Protocol Corporate Accounting and Reporting Standard" (GHG Protocol) issued by the World Resources Institute and the World Business Council for Sustainable Development. The Group has adopted the "operational control" approach for defining its organisational boundary for the purpose of GHG accounting and reporting."
3. Scope 2 GHG emissions data was calculated according to the market-based method set out in the GHG Protocol as far as reasonably practical
4. HAECO Group reports a full scope 3 inventory of the Group, including 50% of Hong Kong Aero Engine Services Limited total Scope 1 & 2 GHG emissions.