

Sustainable Development Report 2022

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

ENVIRONMENTAL PERFORMANCE

	Unit	Airframe	Cabin	Component	Engine	HAECO Group Total
Energy Consumption¹						
Direct energy consumption	GJ	159,809	3,142	322	46,337	209,610
Indirect energy consumption	GJ	242,836	23,408	42,100	25,567	333,911
Total energy consumption	GJ	402,645	26,550	42,422	71,904	543,521
Greenhouse Gas Emission²						
Greenhouse Gas Emissions from Direct Operations - Scope 1	kg CO ₂ e	12,912,576	164,019	21,420	2,080,760	15,178,775
Greenhouse Gas Emissions from Direct Operations - Scope 2, market-based method ³	kg CO ₂ e	21,734,268	2,305,739	6,391,949	13,085,336	43,517,292
Total Greenhouse Gas Emissions from Direct Operations (market-based method)	kg CO ₂ e	34,646,844	2,469,758	6,413,369	15,166,096	58,696,067
Greenhouse Gas Emissions Across HAECO Group's Value Chain ⁴	kg CO ₂ e	-	-	-	12,302,308	12,302,308
Total GHG Emission	kg CO₂e	34,646,844	2,469,758	6,413,369	27,468,404	70,998,375
Ozone Depleting Substances						
Ozone depleting substances emitted	kg CFC-11e	20	-	-	-	20

Sustainable Development Report 2022

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	Unit	Airframe	Cabin	Component	Engine	HAECO Group Total
Fuel						
Jet Kerosene	tonne	-	-	-	1,204,005	1,204,005
Diesel	L	1,614,602	-	1,895	-	1,616,497
LPG/ Propane	L	42,149	678	678	-	43,505
Unleaded Petrol	L	243,572	9,243	16,912	3,681	273,407
Towngas/ Natural Gas	MJ	55,173,821	2,819,695	2,819,695	865	60,814,075
Electricity						
On-site Renewable Energy Generation (Contributing to Carbon Reduction)	kWh	1,131,591	-	-	-	1,131,591
Refrigerant / Fire Extinguishing Agent						
Refrigerant / Fire extinguishing agent consumed	kg	2,423	-	-	-	2,423
Water						
Potable water used	m ³	323,901	13,527	22,064	25,599	385,090
Water recycled	m ³	39,806	-	-	1,534	41,340

Sustainable Development Report 2022

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	Unit	Airframe	Cabin	Component	Engine	HAECO Group Total
Materials						
Paper and paper products consumed	kg	79,376	-	4,014	6,688	90,078
Waste Management						
Total Non-hazardous Waste Generated	kg	3,282,347	112,638	117,939	103,600	3,616,525
Total Non-hazardous Waste Diverted	kg	1,998,728	45,372	114,943	88,189	2,247,231
Waste diversion from landfill ratio	%	46%	40%	69%	83%	62%
Hazardous Waste Management						
Liquid chemical waste disposed of	L	759,929	16,036	16,036	21,896	813,897
Solid chemical waste disposed of	kg	736,618	3,250	3,250	15,177	758,295
Kerosene recycled	L	119,483	-	5,006	-	124,489
Recycled Chemical Waste to Liquid Chemical Waste Ratio	%	13%	-	-	-	13%
Significant chemicals / oil spills	No.	-	-	-	-	-

Notes:

1. Energy consumption data was based on the amount of greenhouse gas reporting: conversion factors 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 location-based method set out in the GHG Protocol as far as reasonably practical.
4. HAECO Group currently reports a proportion of the Hong Kong Aero Engine Services Limited total Scope 1 & 2 GHG emissions.