

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 ¹	HAECO Group Total
Energy Consumption²						
Direct energy consumption	GJ	161,782	3,452	346	36,955	202,535
Indirect energy consumption	GJ	267,603	20,809	26,482	21,984	336,877
Total energy consumption	GJ	429,385	24,261	26,828	58,938	539,412
Total energy consumption per man hour worked	MJ / attended hour	17.55	52.25	16.60	56.42	19.55
Greenhouse Gas Emission³						
Direct emission (Scope 1)	kg CO ₂ e	14,928,200	182,530	65,190	2,632,420	17,808,340
Indirect emission (Scope 2) ⁴	kg CO ₂ e	33,163,490	2,219,130	4,609,870	3,712,070	43,704,560
Emission from operation (Scope 1+ Scope2)	kg CO ₂ e	48,091,690	2,401,660	4,675,060	6,344,490	61,512,900
Emission from operation (Scope 1+ Scope2) per man hour worked	kg CO ₂ e / attended hour	1.97	5.17	2.89	6.07	2.23
Other indirect emission (Scope 3) by business air travel	kg CO ₂ e	184,428	-	15,891	-	200,319
Total GHG Emission	kg CO ₂ e	48,276,118	2,401,660	4,690,951	6,344,490	61,713,219

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Ozone Depleting Substances						
Ozone depleting substances emitted	kg CFC-11e	123	-	1	-	124
Fuel						
Jet Kerosene	tonnes	-	-	-	1,025	1,025
Diesel	L	2,747,723	3,086	1,718	-	2,752,527
LPG/ Propane	L	46,332	770	-	-	47,102
Unleaded Petrol	L	260,424	8,697	8,696	3,829	281,646
Towngas/ Natural Gas	MJ	51,552,438	3,035,506	-	765	54,588,709
Electricity						
Total electricity consumed	kWh	74,370,075	5,780,217	7,356,093	6,097,910	93,604,295
Renewable energy generated	kWh	1,303,396	-	199,313	-	1,502,709
Refrigerant / Fire Extinguishing Agent						
Refrigerant / Fire extinguishing agent consumed	kg	4,566	-	27	-	4,593

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Water						
Potable water used	m ³	348,099	11,072	14,300	25,957	399,428
Water discharged to sewer	m ³	138,836	10,614	10,287	7,930	167,667
Water recycled	m ³	51,445	-	-	2,050	53,495
Potable water used per man-hour used	L / attended hour	14.22	23.84	8.85	24.85	14.47
Total volume of water recycled per potable water used	%	14.8%	0.0%	0.0%	7.9%	13.4%
Materials						
Paper and paper products consumed	kg	176,669	-	4,682	4,858	186,209
Waste Management⁵						
Industrial / Commercial waste disposed of	kg	1,846,785	94,314	198	-	1,941,297
Grease trap waste disposed of	kg	169,568	-	-	-	169,568
Food waste recycled	kg	135,050	-	1,260	-	136,310
Metal recycled	kg	181,910	4,337	26,954	7,122	220,323
Paper / Cardboard recycled	kg	326,041	14,928	3,744	3,680	348,393
Plastics recycled	kg	28,373	-	832	-	29,205
Wood recycled	kg	343,637	-	37,530	11,410	392,577
Glass recycled	kg	-	-	-	-	-

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Scrap tires recycled	kg	1,907	-	-	-	1,907
Waste to energy	kg	1,008,000	-	33,772	52,750	1,094,522
Recyclable to general waste ratio (Solid)	%	35.5%	17.0%	99.7%	100.0%	36.7%
Waste diversion from landfill ratio	%	52.3%	17.0%	99.8%	100.0%	53.4%
Hazardous Waste Management						
Liquid chemical waste disposed of	L	548,467	8,204	122	41,527	598,320
Solid chemical waste disposed of	kg	487,656	3,922	456	16,216	508,250
Kerosene recycled	L	112,124	-	-	-	112,124
Recycled chemical waste to liquid chemical waste ratio	%	17.0%	-	-	0.0%	15.8%
Significant chemicals / oil spills	No.	-	-	-	-	-

Note:

- Following a revision to HAECO Group report boundary in 2021, figures exclude Hong Kong Aero Engine Services Limited (HAESL), a joint venture company between Rolls-Royce and HAECO.
- Energy consumption data was based on the amount of greenhouse gas reporting: conversion factors 2020 provided by Swire Pacific.
- 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.
- Scope 2 GHG emissions data was calculated according to the location-based method set out in the GHG Protocol as far as reasonably practical.
- The waste in HAECO Component Overhaul (Xiamen) was handled by HAECO Xiamen and has been reported under HAECO Xiamen.