

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. The data was approved and checked for any material errors both internally and externally.

ENVIRONMENTAL PERFORMANCE

		HAECO Hong Kong	HAESL	HAECO Xiamen	TEXL	HAECO Composite Services	HAECO Landing Gear Services	HAECO Component Overhaul (Xiamen)	HAECO Americas	HAECO Group Total		
Unit		2019								2019	2018	2017
Energy Consumption¹												
Direct energy consumption	GJ	144,447	139,613	16,101	73,552	328	149	-	72,282	446,473	430,297	382,913
Indirect energy consumption	GJ	140,943	124,421	89,292	23,858	4,754	20,076	762	98,123	502,229	494,592	474,396
Total energy consumption	GJ	285,390	264,035	105,393	97,410	5,082	20,224	762	170,405	948,702	924,889	857,309
Total energy consumption per attended hour	MJ/attended hour	19.50	101.85	10.69	108.31	17.61	30.90	4.27	29.07	26.80	26.92	24.90

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Greenhouse Gas Emissions²												
Direct emission (Scope 1)	kg CO _{2e}	11,695,101	10,446,422	6,024,374	5,266,623	148,469	10,024	-	3,963,586	37,554,599	33,164,596	29,084,191
Indirect emission (Scope 2) ³	kg CO _{2e}	19,993,601	17,631,822	14,713,332	4,149,110	826,787	3,491,319	132,470	11,527,596	72,466,037	73,491,038	76,841,935
Emission from operation (Scope 1 + Scope 2)	kg CO _{2e}	31,688,702	28,078,244	20,737,706	9,415,733	975,256	3,501,343	132,470	15,491,182	110,020,636	106,655,634	105,926,126
Emission from operation (Scope 1 + Scope 2) per attended hour	kg CO _{2e} / attended hour	2.10	10.83	2.10	10.47	3.38	5.35	0.74	2.64	3.11	3.10	3.08
Other Indirect Emission (Scope 3) by business air travel	kg CO _{2e}	1,033,844	311,723	532,344	90,398	33,815	45,263	3,456	586,366	2,637,209	2,458,787	2,403,557
Total GHG emission	kg CO _{2e}	32,722,546	28,389,967	21,270,050	9,506,131	1,009,071	3,546,606	135,926	16,077,548	112,657,845	109,114,421	108,329,682
Ozone Depleting Substances												
Ozone depleting substances emitted	kg CFC-11e	538	-	129	-	3	-	-	-	670	33,451	662

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Fuel												
Jet Kerosene	tonnes	-	3,165	-	1,669	-	-	-	-	4,834	4,562	4,248
Diesel	L	3,740,499	1,100	405,120	-	-	2,479	-	250,968	4,400,166	4,001,729	3,781,315
LPG/ Propane	L	22,527	-	-	-	-	-	-	44,432	66,959	71,259	85,147
Unleaded petrol	L	213,676	2,428	46,394	6,625	10,019	4,542	-	127,687	411,371	437,733	440,906
Towngas/ Natural Gas	MJ	2,270,400	465,072	-	-	-	-	-	57,988,682	60,724,154	66,372,723	44,565,866
Electricity												
Total electricity consumed	kWh	39,150,858	34,561,510	23,500,969	6,627,200	1,320,600	5,576,541	211,598	27,256,401	138,205,677	136,043,993	130,873,608
Renewable energy Generated	kWh	-	-	1,302,374	-	-	-	-	-	1,302,374	1,373,157	1,283,571
Refrigerant / Fire Extinguishing Agent												
Refrigerant/ Fire extinguishing agent consumed	kg	2,436	344	3,795	-	187	-	-	-	6,761	8,088	2,214

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Water												
Potable water used	m ³	185,785	151,771	166,725	34,375	2,698	12,451	533	46,170	600,508	633,306	647,431
Water discharged to sewer	m ³	173,543	151,771	67,734	25,537	539	11,206	480	45,955	476,764	482,351	537,939
Water recycled	m ³	-	-	50,178	-	-	-	-	-	50,178	45,542	51,779
Potable water used per attended hour	L/ attended hour	12.70	58.54	16.92	38.22	9.35	19.02	2.99	7.88	16.96	18.44	18.81
Total volume of water recycled per potable water used	%	-	-	30.1	-	-	-	-	-	8.4	7.2	8.0
Materials												
Paper and paper products consumed	kg	77,970	19,480	58,709	6,777	1,711	3,362	-	49,285	217,293	221,963	249,939

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Waste Management												
Industrial/ Commercial waste disposed of ⁴	kg	1,780,223	413,710	1,120,000	325,520	12,500	18,410	-	632,082	4,302,445	3,956,416	4,028,151
Grease trap waste disposed of	kg	89,930	35,880	4,002	-	-	-	-	-	129,812	219,648	250,825
Food waste recycled	kg	24,322	28,016	94,031	-	1,250	-	-	-	147,619	156,672	154,032
Metal recycled	kg	13,848	3,875	1,000	-	-	24,509	-	148,007	191,239	181,806	154,575
Paper/ Cardboard recycled	kg	204,730	7,441	53,976	-	125	3,150	-	113,235	382,657	368,809	445,450
Plastics recycled	kg	3,612	4,430	8,480	-	30	903	-	367	17,822	16,651	26,851
Wood recycled	kg	120,200	103,730	-	-	-	-	-	-	223,930	605,710	567,191
Printing cartridges recycled	No.	-	529	796	-	128	-	-	-	1,453	1,312	1,144
Recyclable to general waste ratio (Solid)	%	17.1	26.3	12.3	0.0	10.1	60.8	-	29.3	18.3	25.1	25.1

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Hazardous Waste Management												
Liquid chemical waste disposed of	L	409,729	87,660	48,633	48,008	2,691	-	-	17,380	614,101	657,528	594,890
Solid chemical waste disposed of	kg	127,800	88,363	356,724	22,145	5,691	-	-	206,761	807,483	812,214	832,808
Kerosene recycled	L	-	5,400	-	-	-	-	-	205,422	210,822	218,867	206,686
Recycled chemical waste to liquid chemical waste ratio	%	-	5.8	-	-	-	-	-	92.2	25.6	25.0	-
Significant chemicals/ oil spills	No.	-	-	-	-	-	-	-	-	-	-	-

Note:

1. Energy consumption data was based on the amount of greenhouse gas reporting: conversion factors 2019.
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. The waste in HAECO Component Overhaul (Xiamen) was handled by HAECO Xiamen and has been reported under HAECO Xiamen.