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III.Organizations, Initiatives, Policies, Contributions and Other Expenses

Unit: TWD thousand

item	2020	2021	2022	2023
Lobbying, interest representation or similar	0	0	0	0
Local, regional or national political cam-paigns/ organizations/candidates	0	0	0	0
Trade associations or tax-exempt groups (e.g. think tanks)	33,250,413	30,734,332	36,942,418	56,564,101
Other (e.g. spending related to ballot measures or referendums)	0	0	0	0
Total contributions and other spending	33,250,413	30,734,332	36,942,418	56,564,101
Data coverage (as % of denominator, indi-cating the organizational scope of the re-reported data)	100	100	100	100

Note: This includes the total contributions and expenditures towards political activities, political organizations, lobbying or lobbying organizations, trade associations, and other tax-exempt groups in past years.

Environmental Performance

Primary Item	Secondary Item	Unit	2020		2021		2022		2023		2022 Objective	Achievement Rate
Category 1 GHG Emissions	Flight operations	Tons CO ₂ e	5,787,751	5,790,802	5,875,531	5,878,428	5,435,050	5,439,091	6,048,568	6,052,838	5,888,879	97%
	Ground Operations	Tons CO ₂ e	3,051		2,897		4,041		TWN : 3,028 OVS : 1,242			
Category 2 GHG Emissions	Ground Operations	Tons CO ₂ e	17,572		16,697		16,468		TWN : 15,767 OVS : 1,072	16,839	18,593	110%
Category 3-6 GHG Emissions (Note 1)	Ground Operations	Tons CO ₂ e	1,326,227		1,364,016		1,240,935		1,389,211		1,343,555	97%
Aviation Fuel Usage	All Aircrafts (non-renewable energy)	Tons	1,829,328		1,857,073		1,717,758		1,911,645		Fleet fuel efficiency 0.2373 tons/thousand RTK	104%
	Sustainable Aviation / Alternative Fuel	Tons (%)	0		7.7(4.15E-4)		23.1(8.6E-4)		24.5(0.0013)		0.001%	100%
Aviation Fuel Efficiency	Passenger Aircraft	L/RPK*100	15.2246		18.9433		7.2469		4.3343		7.1372	164%
	Cargo Aircraft	L/FRTK	0.2252		0.1830		0.2060		0.2099		0.2060	98%
	All Aircrafts (Note2)	Tons / thousand RTK	0.2586		0.2442		0.2472 0.2409*		0.2287		0.2373	104%
Aviation Fuel Carbon Intensity	Passenger Aircraft	Tons CO ₂ e / thousand RTK	0.5952		0.4795		0.1834		0.1097		0.1807	165%
	Cargo Aircraft	Tons CO ₂ e / thousand RTK	0.5700		0.5334		0.5213		0.5313		0.5214	98%
	All Aircraft	Tons CO ₂ e / thousand RTK	0.8180		0.7726		0.7821		0.7236		0.7704	106%
Energy Consumption	Aviation Fuel	MWh/GJ	22,411,067 / 80,673,386		22,750,962 / 81,896,910		21,044,032 / 75,752,456		23,419,521 / 84,303,532		Energy Consumption 22,829,496	97%
	Gasoline	MWh/GJ	2,429 / 8,744		2,229 / 8,024		2,248 / 8,091		2,443 / 8,795			
	Diesel	MWh/GJ	8,257 / 29,721		8,032 / 28,914		6,871 / 24,733		7,610 / 27,394			
	Natural Gas	MWh/GJ	505 / 1,819		286 / 1,030		291 / 1,049		272 / 978			
	Electricity Purchased	MWh/GJ	34,523 / 124,272		33,260 / 119,728		32,354 / 116,465		31,853 / 114,662			
	Elevator Power Regeneration	kWh/GJ	1,177 / 4.24		889/3.20		11,213 / 40.36		12,111 / 43.60		Full Operation	100%
	Renewable Energy(Solar)	MWh/GJ	117 / 421		127 / 457		110 / 296		119 / 428		120	99%

Trust Value Related Data

I.Flight Safety

China Airlines has not experienced any personnel fatalities from 2020 to 2023.

Passenger Fatalities	2020	2021	2022	2023
Number	0	0	0	0

China Airlines successfully passed the IATA Operational Safety Audit (IOSA) certification for the 11th consecutive time in 2022. The most recent certification is as follows:



II.Online Sales Channels and Sales Amount for China Airlines

Passenger Fatalities	2020	2021	2022	2023	2023 Objectives
Percentage of Ticket Buyers (%)	21.2	20.3	25.3	28.2	26
Percentage of Sales Amount (%)	23.8	26.5	28.5	30.5	30

Note: The updates to the listed data are necessitated by significant alterations in passenger purchase demand and patterns during the 2020-2022 pandemic period. Consequently, the data collection and analysis system has been concurrently adjusted to more accurately align with current market conditions.



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Environmental Performance

Primary Item	Secondary Item	Unit	2020	2021	2022	2023	2022 Objective	Achievement Rate
Water Resources	Water Withdrawal	Million tons	0.134820	0.118422	0.108553	0.124226	0.140805	113%
	Water Discharge	Million tons	0.05953	0.06665	0.05384	0.06302		
	Water Consumption(Note 3)	Million tons	0.07529	0.05178	0.05471	0.06121	0.06938	113%
NOx Emissions	Passenger Air-craft	g/RPK	0.0400	0.0538	0.0183	0.0119	0.0183	154%
	Cargo Aircraft	g/RPK	0.0317	0.0290	0.0291	0.0278	0.0291	105%
Waste Management (in-flight and ground)	Total waste recycling and reuse	Tons	964	675	911	1,696	1,822	107%
	Total Waste Disposal	Tons	1,375	758	1,435	2,857	2,871	100%
	Incineration (energy recovery)	Tons	851	271	745	1,732	1,490	86%
	Incineration (without energy recovery)	Tons	425	410	629	986	1,258	128%
	Waste Processing via Other Disposal Methods	Tons	99	77	61	139	123	88%
Food Waste Management	Food Waste Produced (including in-flight services, VIP lounge services, and employee cafeteria)	Tons	1018	245	774	2139	1,547	72%
	Percentage of Alternative Disposal	%	100	100	100	100	100	100%
	In-Flight Food Waste Ratio	kg/meal	0.58	1.73	0.65	0.33	0.65	195%
Plastic Packaging (related to passenger/cargo transport)	Weight of Plastic Packaging	Tons	350	432	630	867	1,261	145%
	Coverage(Note 4)	%	100	100	100	100%	100%	100%
	Percentage of Recyclable Plastic Packaging	%	81.8	92.2	86.3	72.9%	86.3%	84%
	Percentage of Recycled Plastic Packaging (Note 5)	%	9.51	3.06	4.77	16.56%	4.77%	347%
Wood or Paper Packaging	Weight of Packaging	Tons	96	40	84	251		
	Coverage	%	100%	100%	100%	100%		
	Percentage of Materials Recycled and Certified (Note 6)	%	74.41%	82.55%	72.12%	79.70%	72%	111%
Metal Packaging	Weight of Packaging	Tons	85	55	289	123		
	Coverage	%	100%	100%	100	100%		
	Percentage of Materials Recycled and Certified (Note 6)	%	100%	100%	100%	100%	100%	100%
Glass Pack-aging	Weight of Packaging	Tons	6.90	0.14	45	169		
	Coverage	%	100%	100%	100	100%		
	Percentage of Materials Recycled and Certified (Note 6)	%	100%	100%	100%	100%	100%	100%
Environmental Investment (Note 7)	Green Investment	thousand TWD	175,074	177,098	170,852	229,570		
	Saving and Cost Avoidance	thousand TWD	864,422	557,807	525,707	588,840		

Note 1: Scope 3 emissions in 2019 included activities energy-related activities, employee commuting, etc. In 2020, according to the ISO 14064-1:2018 standard, the calculation of categories three to six were expanded. All data have passed external verification.

Note 2: The aviation fuel efficiency of all aircraft is calculated based on the total amount of aviation fuel (including training and maintenance oil) and operational fuel usage. The fuel efficiency of passenger/cargo aircraft only collects the operational aviation fuel usage of passenger/cargo aircraft.

Note 3: According to GRI 303: Water and Effluent 2018, water consumption = water withdrawal (from external sources include natural bodies, tap water, and rainwater utilized by CAL) – water discharge (into natural bodies and external wastewater treatment facilities)

Note 4: The coverage is calculated as Purchase Amount/Cost of Goods Sold.

Note 5: The percentage of recycled materials and certified materials is calculated as follows: Weight of Recyclable Packaging (including certified materials)/Total Weight of Packaging.

Note 6: Weight of Recyclable Packaging refers to the weight of packaging that has been verified by CAL as recycled.

Note 7: Annual special investments and promotional projects are not included in this table. (Please refer to the financial yearbook for more detailed information.)