

Environment

ANA Group Environmental Data

The ANA Group's impact on the environment and society is reported here quantitatively based on data we have compiled for FY2006.

ANA Group Environmental Data (FY 2006*1)			Units	ANA Internal	ANA Group	Ratio over the previous year (ANA Group)	
Ozone depletion	Halon and fluorocarbon (aircraft)	Amount of discharge	kg	0	0	—	
Water resources	Total water usage (buildings)		10,000 tons	40.0	48.4	102%	
	Waterworks		10,000 tons	36.2	44.1		
	Recycled water		10,000 tons	3.8	5.0		
	Rate of recycled water usage			9%	10%		
Eco-system related environmental issue	Water pollution	Total waste treatment (buildings)	10,000 tons	4.7	5.4	158%	
		Industrial waste	10,000 tons	1.9	2.7		
		Cafeteria waste	10,000 tons	2.8	2.8		
	Aircraft anti-ice agent usage		kl	1,333	1,333	90%	
Toxic substance	Amount of PCB storage		ton	4.2	4.4	100%	
Global warming	Deforestation	Total paper consumption	ton	6,192	11,370	110%	
		Total paper for photocopies (purchased)	ton	308	480		
		Percentage of recycled paper use			97%	85%	
		Inflight magazines, posters and pamphlets	ton	5,711	10,890		
	Energy	Total energy consumption (crude oil equivalent)	crude oil 10,000 kl	268	316	104%	
		Aircraft energy consumption	crude oil 10,000 kl	264	312		
		Ground energy consumption*2	crude oil 10,000 kl	3.9	4.8		
		Total aircraft fuel consumption	10,000 kl	278.5	329.1	104%	
		Consumption per seat-kilometer	l/100ASK	3.62	3.66		
		Building power consumption	10,000 kWh	12,435	14,088		
		Vehicle fuel consumption	10,000 kl	0.2	0.4		
		Facility fuel consumption	10,000 kl	0.3	0.4		
		Total gas consumption	10,000 m ³	35.9	67.3		
		Energy supply	10,000 MJ	3.4	3.5		
	Air pollution	Total number of vehicles/aircraft	Aircraft	aircraft	152	211	110%
		Motor vehicles		cars	1,457	3,072	110%
		Low-emission vehicles		cars	210	459	
		Ratio of low-emission vehicles			14%	15%	
		Total carbon dioxide (CO ₂) emissions		10,000 ton-CO ₂	693	819	104%
		Aircraft (total carbon emissions)		10,000 ton-CO ₂	686.3	810.9	104%
		Aircraft (emissions per seat-kilometer)		g-C/ASK	24.4	24.6	101%
		Ground equipment and vehicles (total emissions)		10,000 ton-CO ₂	6.4	8.3	106%
		Nitrogen oxide (NO _x)	(Aircraft – amount of emissions in LTO cycle)	10,000 ton-NO _x	0.52	0.64	105%
Hydrocarbon (HC)		(Aircraft – amount of emissions in LTO cycle)	10,000 ton-HC	0.10	0.11	100%	
Carbon monoxide (CO)	(Aircraft – amount of emissions in LTO cycle)	10,000 ton-CO	0.51	0.60	103%		
Fuel dumping for emergency landing	(Aircraft – total amount)		kl	0	0	—	
Number of fuel dumping			times	0	0	—	
Waste	Total waste		10,000 tons	2.17	2.24	102%	
	In-flight operations-Total cabin waste and sewage		10,000 tons	1.90	1.90	107%	
	Ground operations-Total ground waste		10,000 tons	0.27	0.34	82%	
	Subtotal of general waste		10,000 tons	0.17	0.19		
	Subtotal of industrial waste		10,000 tons	0.10	0.15		

*1 The data shows ANA and the ANA Group companies (Air transportation, Maintenance, Ground handling, Vehicle maintenance, etc.) in FY2006. Does not include data for all ANA Group companies.

*2 Power supplied to parked aircraft from ground included



Energy Consumption and CO2 Emissions

Summary

The ANA Group's core operation being air transport, 98% of its energy consumption is jet fuel.

The remaining 2% consumed on the ground is still significant—equivalent to 46,000 kiloliters of crude oil—and of that, 75% is electricity (approximately 140 million kWh). This equals approximately half of the total annual power consumption at a major private railway in Tokyo.

Transition

Aircraft Energy Consumption

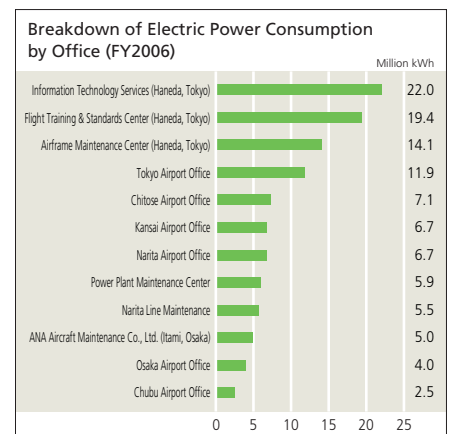
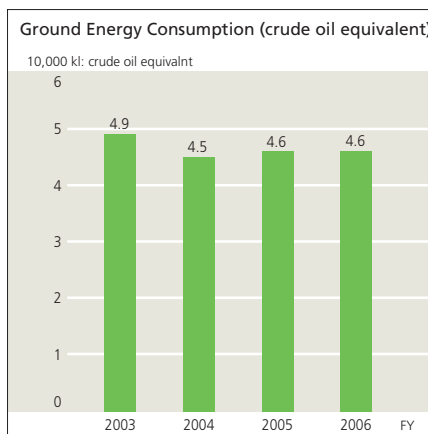
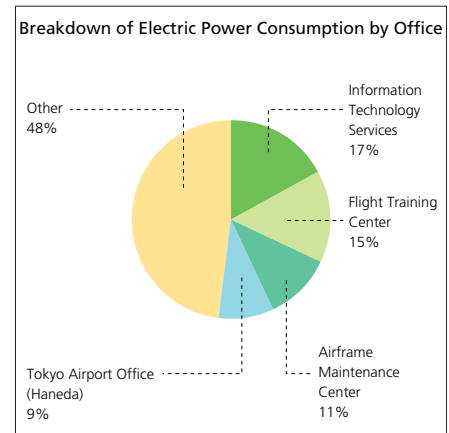
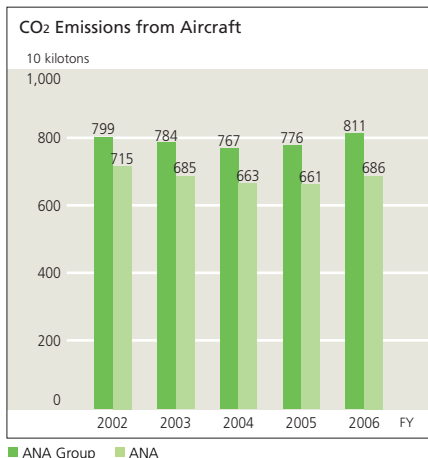
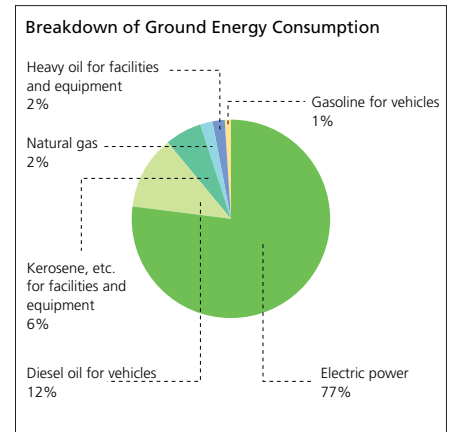
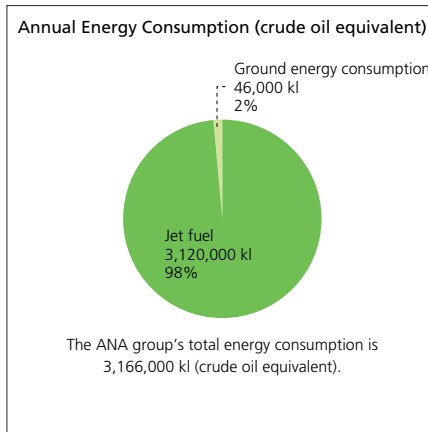
Consumption of jet fuel, our main form of energy, increased by 4% over FY2005 for all ANA Group domestic and international flights. CO2 emissions also increased by 4%.

Ground Energy Consumption

Ground energy consumption*1 totaled 46,000 kiloliters (crude oil equivalent), about the same as in FY2005.

Consumption of electric power, which accounts for approximately 80% of ground energy, increased by 4% over FY2005. The four major offices of Information Technology Services, Flight Training & Standards Center, Airframe Maintenance Center and Tokyo Airport Office (Haneda) accounted for 52% of ANA Group power usage.

*1 By the ANA Group offices, excluding power supplied to parked aircraft from ground



Environment

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Derivation of Waste

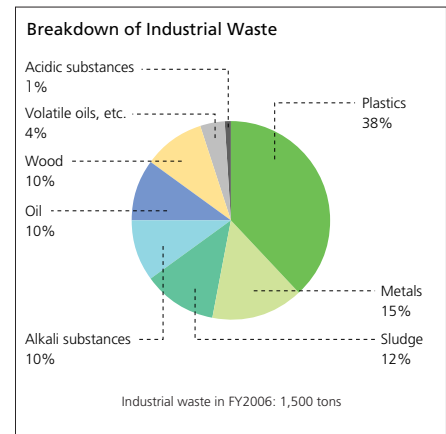
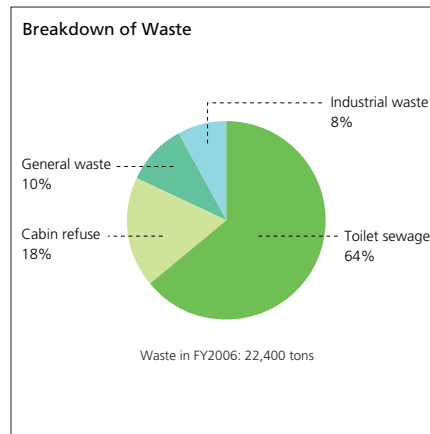
Summary

The ANA Group produced approximately 22,400 tons of waste. Of this, general waste from aircraft (toilet sewage and cabin refuse) accounted for 82%. The rest came from ground operations.

Approximately 38% of industrial waste was plastic. Reduction of waste plastic is an important subject in promoting reduction of derivatives.

Transition

Our waste increased by 300 tons (2%) over FY2005. Though aircraft waste (e.g., toilet sewage) increased, there was a decrease in general and industrial waste.



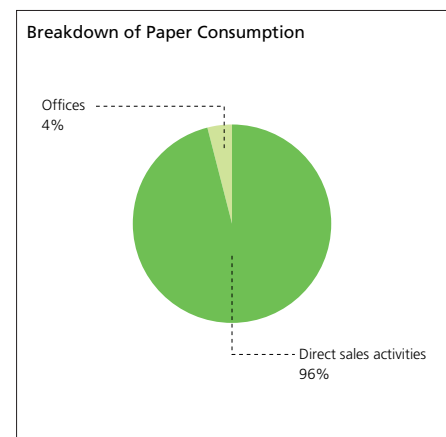
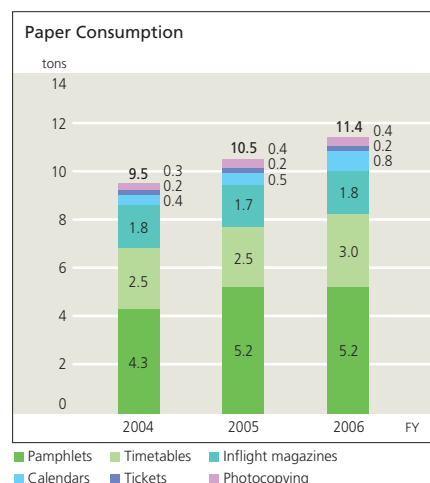
Paper Consumption

Summary

The ANA Group consumed 11,370 tons of paper. Of this, 96% was used for business activities such as publishing timetables, pamphlets, posters and the inflight magazine. The percentage of paper used for photocopying in our offices represented 4% of the total, or approximately 480 tons. While this is a considerable amount, 75% was recycled paper.

Transition

FY2006 paper consumption increased by 10% to 11,370 tons, the major factor being an increase in inflight magazines and timetables.





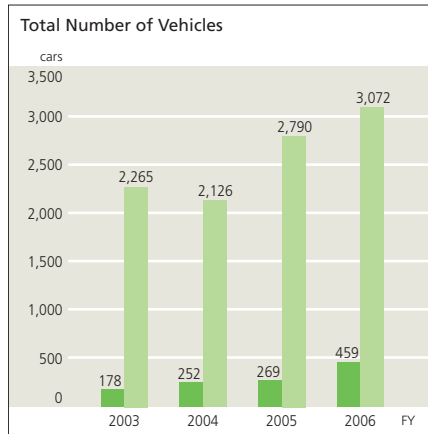
■ Ground Vehicles

Summary

The 3,072 motor vehicles, including those leased, in service at ANA Group companies also have a significant impact on the environment. Of these vehicles, 86% are non-registered and used in limited areas at airports, mainly for ground handling.

Transition

New data from five ground-handling companies at regional airports around Japan were added to the total, resulting in an increase of 282 vehicles over FY2005. The number of low-emission vehicles increased by 190, to 459. These account for 15% of all vehicles.



■ Number of low-emission vehicles ■ Total number of vehicles

