

YKK (U.S.A.) INC.

Country:	UNITED STATES
Location:	Macon, Georgia
Business area(s):	Manufacture of fasteners, S&B and T&P
Number of employees:	703
Land area:	1,226,000 m ²
Total built area:	223,000 m ²
ISO 14001 certification date:	Feb. 18, 2003 (Ocmulgee Park Plant), May 16, 2003 (Chestney Park Plant)

< 2007 fiscal year environmental impact data >

Amount of electric power used	68,502,000 kWh
Amount of fossil fuel used	91,842 GJ
Amount of CO ₂ emitted	30,385 t
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Total amount of waste products emitted	2,513 t
Amount of recycled material	1,849 t
Recycling rate	73.6%
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Amount of copy paper used	14.8 t
Amount of water used	515,700 m ³

Water discharge standards	Unit	Acceptable level SL2 plant	Measured values SL2 plant	Acceptable level Other plants	Measured values Chestney plant	Measured values MF1 plant	Measured values MF2VF2 plant
BOD	mg/l	-	-	250	99.0	11.8	23.2
COD	mg/l	2000	152.0	2000	-	79.5	57.3
SS	mg/l	250	8.6	250	16.6	11.2	19.2
Oil	mg/l	150	6.0	150	10.8	8.2	11.0
pH	-	6.0-11.0	10.02	6.0-11.0	8.90	8.12	7.94
Cadmium (Cd)	mg/l	0.003	0.003	0.003	-	0.003	0.003
Cyanide (CN)	mg/l	0.041	0.035	0.041	-	0.020	0.022
Chromium (Cr)	mg/l	1.45	0.01	1.45	-	0.005	0.005
Ammonia (NH ₃)	mg/l	25	8.2	25	0.3	1.1	4.6
Nitrogen (N)	mg/l	-	-	50	15.6	2.2	12.8
Copper (Cu)	mg/l	3.38	0.44	2.41	0.02	0.50	0.07
Lead (Pb)	mg/l	0.042	0.001	0.042	-	0.001	0.001
Nickel (Ni)	mg/l	3.98	0.24	0.456	-	0.005	0.005
Silver (Ag)	mg/l	0.43	0.01	0.41	-	-	0.005
Zinc (Zn)	mg/l	2.61	0.19	1.86	0.06	0.81	0.07
Selenium (Se)	mg/l	-	-	0.613	-	0.157	0.310
Water discharge destination	Public wastewater treatment plant						

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We quit sending plating sludge to the landfill and began recycling instead.
- We participated in clean-up activities on the Ocmulgee River, which runs through Macon City, where one of the plants is located.

NORTH AND CENTRAL AMERICA

YKK (U.S.A.) INC. West Division

Country:	UNITED STATES
Location:	Anaheim, California
Business area(s):	Fastener manufacture
Number of employees:	77
Land area:	38,500 m ²
Total built area:	14,000 m ²
ISO 14001 certification date:	—

< 2007 fiscal year environmental impact data >

Amount of electric power used	1,322,000 kWh
Amount of fossil fuel used	36 GJ
Amount of CO ₂ emitted	501 t
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Total amount of waste products emitted	77 t
Amount of recycled material	27 t
Recycling rate	34.9%
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Amount of copy paper used	1.4 t
Amount of water used	200 m ³

Water discharge standards	
	Wastewater only from ordinary uses
Water discharge destination	Public sewers

● Leaks, discharge accidents, legal violations, etc.

None

NORTH AND CENTRAL AMERICA

YKK CANADA INC.

Country:	CANADA
Location:	Montreal, Quebec
Business area(s):	Manufacture of fasteners and S&B
Number of employees:	117
Land area:	57,400 m ²
Total built area:	29,500 m ²
ISO 14001 certification date:	Jan. 27, 2003

< 2007 fiscal year environmental impact data >

Amount of electric power used	5,984,000 kWh
Amount of fossil fuel used	20,872 GJ
Amount of CO ₂ emitted	3,287 t
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Total amount of waste products emitted	177 t
Amount of recycled material	111 t
Recycling rate	62.4 %
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Amount of copy paper used	1.8 t
Amount of water used	41,000 m ³

Water discharge standards	Unit	Legal standards	Voluntary management standards	Measured values
pH	-	6.5-10.5	6.5-10.5	9.33
Cyanide (CN)	mg/l	10	2	0.01
Hexavalent chromium (Cr VI)	mg/l	5	2	0.03
Copper (Cu)	mg/l	5	2	0.20
Lead (Pb)	mg/l	2	1	0.00
Nickel (Ni)	mg/l	5	2	0.18
Zinc (Zn)	mg/l	10	2	0.04
Tin (Sn)	mg/l	5	5	0.00
Water discharge destination	Sewers			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- Each division sets goals and posts them in various locations to raise awareness of environmental issues among employees.

YKK SNAP FASTENERS AMERICA INC.

Country:	UNITED STATES	
Location:	Lawrenceburg, Kentucky Centerville, Tennessee	
Business area(s):	S&B manufacture	
Number of employees:	279	
Land area:	730,800 m ²	
Total built area:	33,800 m ²	
ISO 14001 certification date:	Apr. 11, 2005	

< 2007 fiscal year environmental impact data >

Amount of electric power used	14,925,000 kWh
Amount of fossil fuel used	69,331 GJ
Amount of CO ₂ emitted	9,076 t
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Total amount of waste products emitted	2,129 t
Amount of recycled material	1,549 t
Recycling rate	72.7%
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Amount of copy paper used	6.6 t
Amount of water used	135,800 m ³

Water discharge standards	Unit	Legal standards	Measured values
BOD	mg/l	450	38.3
SS	mg/l	300	54.1
Oil	mg/l	25	<5
pH	-	5.5-10	7.38
Cadmium (Cd)	mg/l	0.07	<0.01
Cyanide (CN)	mg/l	0.99	0.03
Hexavalent chromium (Cr VI)	mg/l	2.28	0.05
Nitrogen (N)	mg/l	40	14.7
Copper (Cu)	mg/l	1.16	0.36
Lead (Pb)	mg/l	0.3	<0.01
Nickel (Ni)	mg/l	1.5	0.14
Zinc (Zn)	mg/l	2.03	0.04
Arsenic (As)	mg/l	0.2	<0.01
Water discharge destination	CV plant: river; LB plant: public water		

● Leaks, discharge accidents, legal violations, etc.

None

YKK SNAP FASTENERS MANUFACTURA MEX CO S A .DE C V .

Country:	MEXICO
Location:	Irapuato, Guanajuato
Business area(s):	S&B manufacture
Number of employees:	71
Land area:	8,000 m ²
Total built area:	8,000 m ²
ISO 14001 certification date:	—

< 2007 fiscal year environmental impact data >

Amount of electric power used	859,000 kWh
Amount of fossil fuel used	2,382 GJ
Amount of CO ₂ emitted	446 t
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Total amount of waste products emitted	9.4 t
Amount of recycled material	5.8 t
Recycling rate	61.7%
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Amount of copy paper used	0.4 t
Amount of water used	5,900 m ³

Water discharge standards	Unit	Legal standards	Measured values
BOD	mg/l	200	33.6
SS	mg/l	200	21.8
Oil	mg/l	25	5.2
pH	-	5-10	7.05
Cadmium (Cd)	mg/l	0.4	0.07
Cyanide (CN)	mg/l	3	0.23
Hexavalent chromium (Cr VI)	mg/l	1.5	0.03
Nitrogen (N)	mg/l	60	7.8
Phosphorus (P)	mg/l	30	3.3
Copper (Cu)	mg/l	6	0.61
Lead (Pb)	mg/l	1	0.32
Nickel (Ni)	mg/l	4	0.64
Zinc (Zn)	mg/l	20	1.08
Arsenic (As)	mg/l	0.2	0.00
Mercury (Hg)	mg/l	0.01	0.00
Water discharge destination	River		

● Leaks, discharge accidents, legal violations, etc.

None

YKK MEXICANA S.A. de C.V.

Country:	MEXICO
Location:	Irapuato, Guanajuato
Business area(s):	Fastener manufacture
Number of employees:	155
Land area:	169,900 m ²
Total built area:	21,300 m ²
ISO 14001 certification date:	Aug. 23, 2005

< 2007 fiscal year environmental impact data >

Amount of electric power used	2,391,000 kWh
Amount of fossil fuel used	9,507 GJ
Amount of CO ₂ emitted	1,371 t
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Total amount of waste products emitted	111 t
Amount of recycled material	88 t
Recycling rate	79.4%
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Amount of copy paper used	3.1 t
Amount of water used	70,600 m ³

Water discharge standards	Unit	Legal standards	Measured values
BOD	mg/l	200	45
SS	mg/l	200	35
Oil	mg/l	25	10
pH	-	5-10	7.6
Cadmium (Cd)	mg/l	0.4	<0.004
Cyanide (CN)	mg/l	3	<0.02
Hexavalent chromium (Cr VI)	mg/l	1.5	<0.012
Nitrogen (N)	mg/l	60	9.4
Phosphorus (P)	mg/l	30	2.6
Copper (Cu)	mg/l	6	0.1
Lead (Pb)	mg/l	1	<0.014
Nickel (Ni)	mg/l	4	<0.006
Lead (Pb)	mg/l	20	0.1
Water discharge destination	River and ground		

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

We donated 60,000 pesos and 200 T-shirts to the Youth Soccer Association of Irapuato to promote harmony with the local community and environmental conservation.

YKK EL SALVADOR S.A. de C.V.

Country:	EL SALVADOR
Location:	San Salvador
Business area(s):	Manufacture of fasteners and S&B
Number of employees:	193
Land area:	29,400 m ²
Total built area:	14,700 m ²
ISO 14001 certification date:	Sept. 26, 2005

< 2007 fiscal year environmental impact data >

Amount of electric power used	2,273,000 kWh
Amount of fossil fuel used	12,771 GJ
Amount of CO ₂ emitted	1,765 t
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Total amount of waste products emitted	129 t
Amount of recycled material	59 t
Recycling rate	46.0%
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Amount of copy paper used	3.1 t
Amount of water used	97,900 m ³

Water discharge standards	Unit	Legal standards	Measured values
BOD	mg/l	200	90.8
COD	mg/l	400	219.4
SS	mg/l	150	15.3
Oil	mg/l	35	19.3
pH	-	5.0-9.0	8.25
Water discharge destination	Irrigation (of a soccer field)		

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- Construction began in February 2008 on a wastewater treatment plant.
- We participated in a campaign to clean up the Sucio River.

TAPE CRAFT CORPORATION

Country:	UNITED STATES
Location:	Oxford, Alabama
Business area(s):	Webbing (narrow fabric) manufacture
Number of employees:	235
Land area:	202,300 m ²
Total built area:	28,800 m ²
ISO 14001 certification date:	Jun. 15, 2007

< 2007 fiscal year environmental impact data >

Amount of electric power used	6,816,000 kWh
Amount of fossil fuel used	61,946 GJ
Amount of CO ₂ emitted	5,630 t

Total amount of waste products emitted	404 t
Amount of recycled material	256 t
Recycling rate	63.3%

Amount of copy paper used	2.3 t
Amount of water used	100 m ³

Water discharge standards	Unit		Applicable standards	Measured values
pH	-		6.0-9.0	7.35
Water discharge destination	Public sewers			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We acquired ISO 14001 certification in June.
- We participated in Student Government Day (students visit government and business organizations) and took in students from Oxford High School.

YKK AP AMERICA Inc.

Country:	UNITED STATES
Location:	Dublin, Georgia
Business area(s):	Manufacture and sales of aluminum sashes and windows for buildings
Number of employees:	515
Land area:	817,100 m ²
Total built area:	76,800 m ²
ISO 14001 certification date:	Apr. 23, 2003

< 2007 fiscal year environmental impact data >

Amount of electric power used	34,816,000 kWh
Amount of fossil fuel used	214,808 GJ
Amount of CO ₂ emitted	23,737 t
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Total amount of waste products emitted	2,999 t
Amount of recycled material	2,299 t
Recycling rate	76.7%
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Amount of copy paper used	12.1 t
Amount of water used	388,400 m ³

Water discharge standards	Unit	Legal standards	Accepted standards	Measured values
SS	mg/l	350	310	23.7
Oil	mg/l	100	85.26	6.9
pH	-	6.0-9.0	6.0-9.0	7.27
Cadmium (Cd)	mg/l	0.11/0.07	0.02	BDL
Cyanide (CN)	mg/l	1.20/0.65	0.2	BDL
Total chromium (Cr)	mg/l	2.77/1.71	1	0.03
Phosphorus (P)	mg/l	-	-	0.77
Copper (Cu)	mg/l	3.38/2.07	1	0.02
Lead (Pb)	mg/l	0.69/0.43	0.04/0.06	BDL
Nickel (Ni)	mg/l	3.98/2.38	1	0.10
Zinc (Zn)	mg/l	2.58/1.47	2.58/1.47	0.03
Silver (Ag)	mg/l	0.36/0.20	0.36/0.20	0.01
Water discharge destination	Public sewage processing plant			

BDL: Below Detection Limit

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We participated in America Recycles Day and cooperated in the recycling of computers and household electronics.
- We participated in volunteer clean-up activities at a nearby river.