

EUROPE, MIDDLE EAST, AFRICA

YKK (U.K.) LTD.

Country: UNITED KINGDOM
 Location: Runcorn, Cheshire
 Business area(s): Manufacture of fasteners and T&P
 Number of employees: 72
 Land area: 74,000 m²
 Total built area: 38,000 m²
 ISO 14001 certification date: Feb. 22, 2001

< 2007 fiscal year environmental impact data >

Amount of electric power used	3,363,000 kWh
Amount of fossil fuel used	12,087 GJ
Amount of CO ₂ emitted	2,104 t
<hr/>	
Total amount of waste products emitted	327 t
Amount of recycled material	187 t
Recycling rate	57.2%
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Amount of copy paper used	2.0 t
Amount of water used	27,700 m ³

Water discharge standards	Unit	Accepted standards	Measured values
COD	mg/l		166
pH	-	6.0-10	7.36
Copper (Cu)	mg/l		0.52
Lead (Pb)	mg/l		0.02
Nickel (Ni)	mg/l		0.01
Zinc (Zn)	mg/l		0.34
Water discharge destination	Regional wastewater treatment plant		

● Leaks, discharge accidents, legal violations, etc.

None

YKK DEUTSCHLAND GMBH

Country:	GERMANY
Location:	Wenkbach, Weimar
Business area(s):	Fastener manufacture
Number of employees:	135
Land area:	56,300 m ²
Total built area:	20,000 m ²
ISO 14001 certification date:	Jan. 11, 2001

< 2007 fiscal year environmental impact data >

Amount of electric power used	3,050,000 kWh
Amount of fossil fuel used	23,832 GJ
Amount of CO ₂ emitted	2,327 t
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Total amount of waste products emitted	192 t
Amount of recycled material	192 t
Recycling rate	100.0%
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Amount of copy paper used	4.6 t
Amount of water used	46,900 m ³

Water discharge standards	Unit	Legal standards	Accepted standards	Measured values
BOD	mg/l	-	-	21
COD	mg/l	160	600	313
SS	mg/l	-	-	3
Oil	mg/l	10	20	4.6
pH	-	-	6.5-10	8.17
Phosphorus (P)	mg/l	2	-	1.54
Copper (Cu)	mg/l	0.5	1	0.00
Zinc (Zn)	mg/l	2	2	0.23
Water discharge destination	Public wastewater treatment plant			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We switched to energy-saving lighting in the plant.
- We installed insulation on the roof of the plant which allowed us to reduce the amount of natural gas used for heating by 10%.

YKK STOCKO FASTENERS GMBH

Country:	GERMANY
Location:	Wuppertal
Business area(s):	S&B manufacture
Number of employees:	235
Land area:	49,100 m ²
Total built area:	22,500 m ²
ISO 14001 certification date:	Sept. 2, 2002

< 2007 fiscal year environmental impact data >

Amount of electric power used	3,511,000 kWh
Amount of fossil fuel used	32,375 GJ
Amount of CO ₂ emitted	3,023 t
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Total amount of waste products emitted	282 t
Amount of recycled material	268 t
Recycling rate	95.3%
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Amount of copy paper used	7.4 t
Amount of water used	31,800 m ³

Water discharge standards	Unit	Legal standards	Accepted standards	Measured values
BOD	mg/l	200	400	77
COD	mg/l	400	800	244
SS	mg/l	-	-	6.3
pH	-	6-9	6-9	7.66
Cyanide (CN)	mg/l	0.2	0.2	0.04
Nitrogen (N)	mg/l	100	100	61.4
Copper (Cu)	mg/l	0.5	0.5	0.26
Nickel (Ni)	mg/l	0.5	0.5	0.21
Zinc (Zn)	mg/l	2	2	0.01
Tin (Sn)	mg/l	2	2	0.39
Water discharge destination	Public wastewater treatment plant			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We implemented an employee training program on energy conservation.
- We switched to more efficient heat exchangers.
- We worked on improving the insulation of the building and windows.
- We cut down on wastewater.

DYNAT VERSCHLUSSTECHNIK GMBH

Country:	GERMANY
Location:	Hildesheim, Niedersachsen
Business area(s):	Manufacture of unique fasteners
Number of employees:	24
Land area:	4,700 m ²
Total built area:	2,000 m ²
ISO 14001 certification date:	Apr. 24, 2003

< 2007 fiscal year environmental impact data >

Amount of electric power used	367,000 kWh
Amount of fossil fuel used	654 GJ
Amount of CO ₂ emitted	171 t
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Total amount of waste products emitted	6.6 t
Amount of recycled material	1.2 t
Recycling rate	18.3%
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Amount of copy paper used	0.1 t
Amount of water used	200 m ³

Water discharge standards	
	Discharge of only daily use water
Water discharge destination	Public sewers

● Leaks, discharge accidents, legal violations, etc.

None

EUROPE, MIDDLE EAST, AFRICA

YKK FRANCE SARL

Country:	FRANCE
Location:	Lille
Business area(s):	Fastener manufacture
Number of employees:	189
Land area:	57,700 m ²
Total built area:	24,400 m ²
ISO 14001 certification date:	May 24, 2002

< 2007 fiscal year environmental impact data >

Amount of electric power used	2,627,000 kWh
Amount of fossil fuel used	21,286 GJ
Amount of CO ₂ emitted	2,082 t
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Total amount of waste products emitted	32 t
Amount of recycled material	27 t
Recycling rate	84.9%
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Amount of copy paper used	3.1 t
Amount of water used	25,500 m ³

Water discharge standards	Unit	Accepted standards	Measured values
BOD	mg/l	800	60
COD	mg/l	2000	428
SS	mg/l	600	29
pH	-	6.5-8.5	7.65
Cadmium (Cd)	mg/l	0.25	0.00
Hexavalent chromium (Cr VI)	mg/l	0.25	0.02
Phosphorus (P)	mg/l	50	0.58
Copper (Cu)	mg/l	0.25	0.05
Lead (Pb)	mg/l	0.1	0.01
Nickel (Ni)	mg/l	0.1	0.01
Zinc (Zn)	mg/l	1	0.11
Selenium (Se)	mg/l	0.02	0.00
Water discharge destination	Public wastewater treatment plant		

● Leaks, discharge accidents, legal violations, etc.

None

YKK ITALIA S.P.A.

Country:	ITALIA
Location:	Vercelli
Business area(s):	Fastener manufacture
Number of employees:	220
Land area:	137,000 m ²
Total built area:	42,000 m ²
ISO 14001 certification date:	May 8, 2002

< 2007 fiscal year environmental impact data >

Amount of electric power used	6,490,000 kWh
Amount of fossil fuel used	104,528 GJ
Amount of CO ₂ emitted	7,611 t
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Total amount of waste products emitted	462 t
Amount of recycled material	455 t
Recycling rate	98.5%
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Amount of copy paper used	2.3 t
Amount of water used	240,000 m ³

Water discharge standards	Unit	Legal standards	Applicable standards	Measured values
BOD	mg/l	40	40	15
COD	mg/l	160	160	59
SS	mg/l	80	80	11
Oil	mg/l	20	20	1.0
pH	-	5.5-9.5	5.5-9.5	8.13
Cadmium (Cd)	mg/l	0.02	0.02	0.00
Cyanide (CN)	mg/l	0.5	0.5	0.00
Hexavalent chromium (Cr VI)	mg/l	0.2	0.2	0.02
Nitrogen (N)	mg/l	0.6	0.6	0.00
Phosphorus (P)	mg/l	10	10	0.1
Copper (Cu)	mg/l	0.1	0.1	0.01
Lead (Pb)	mg/l	0.2	0.2	0.01
Nickel (Ni)	mg/l	2	2	0.01
Zinc (Zn)	mg/l	0.5	0.5	0.01
Selenium (Se)	mg/l	0.03	0.03	0.001
Water discharge destination	River			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We installed energy-saving lights throughout the plant (3,570 in all) that automatically adjust brightness levels according to the amount of natural light coming in.
- We reviewed our air pipe system and were able to cut down on the amount of energy used by reducing the pressure from 7.5 to 5.
- We switched to non-PCB transformers.

YKK ESPANA SA

Country: SPAIN
 Location: Tortosa, Tarragona
 Business area(s): Fastener manufacture
 Number of employees: 213
 Land area: 64,600 m²
 Total built area: 40,000 m²
 ISO 14001 certification date: Nov. 21, 2001

< 2007 fiscal year environmental impact data >

Amount of electric power used	8,600,000 kWh
Amount of fossil fuel used	20,405 GJ
Amount of CO ₂ emitted	4,262 t

Total amount of waste products emitted	466 t
Amount of recycled material	219 t
Recycling rate	47.1%

Amount of copy paper used	3.4 t
Amount of water used	75,100 m ³

Water discharge standards	Unit	Legal standards	Measured values
COD	mg/l	220	122
SS	mg/l	40	23
pH	-	6-9	7.24
Nitrogen (N)	mg/l	25	19.8
Water discharge destination	River		

● Leaks, discharge accidents, legal violations, etc.

None

YKK HELLAS A.E.B.E.

Country: GREECE
 Location: Trikala
 Business area(s): Fastener manufacture
 Number of employees: 23
 Land area: 30,400 m²
 Total built area: 3,100 m²
 ISO 14001 certification date: Dec. 17, 2002

< 2007 fiscal year environmental impact data >

Amount of electric power used	347,000 kWh
Amount of fossil fuel used	2,026 GJ
Amount of CO ₂ emitted	255 t
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Total amount of waste products emitted	3.5 t
Amount of recycled material	3.5 t
Recycling rate	100.0%
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Amount of copy paper used	1.9 t
Amount of water used	700 m ³

Water discharge standards	Unit	Legal standards	Applicable standards	Voluntary management standards	Measured values
BOD	mg/l	-	40	40	1.0
COD	mg/l	-	125	125	63.9
pH	-	6.5-8.3	6-9	6-9	7.97
Water discharge destination	Underground				

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We held a community disaster drill.
- The plant's wastewater testing items changed due to the elimination of the dyeing process in fiscal 2007.

YKK METAL VE PLASTIK URUNLERI SANAYI VE TICARET A.S.

Country:	TURKEY
Location:	Cerkezkoy, Tekirdag
Business area(s):	Manufacture of fasteners and S&B
Number of employees:	434
Land area:	67,300 m ²
Total built area:	38,400 m ²
ISO 14001 certification date:	Jan. 14, 2003

< 2007 fiscal year environmental impact data >

Amount of electric power used	6,185,000 kWh
Amount of fossil fuel used	29,743 GJ
Amount of CO ₂ emitted	3,896 t
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Total amount of waste products emitted	529 t
Amount of recycled material	347 t
Recycling rate	65.7%
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Amount of copy paper used	4.2 t
Amount of water used	241,000 m ³

Water discharge standards	Unit	Accepted standards	Measured values
COD	mg/l	1000	172
SS	mg/l	500	18
Oil	mg/l	50	2.1
pH	-	-	8.2
Cadmium (Cd)	mg/l	2	0.02
Cyanide (CN)	mg/l	10	0.01
Hexavalent chromium (Cr VI)	mg/l	5	0.06
Copper (Cu)	mg/l	3	1.15
Lead (Pb)	mg/l	3	0.10
Nickel (Ni)	mg/l	5	0.14
Zinc (Zn)	mg/l	5	0.31
Tin (Sn)	mg/l	5	1.00
Water discharge destination	Wastewater treatment plant in the industrial park		

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We held a seminar on ISO 14001 and legal regulations for our subcontractors.
- We provided a lecture on environmental management systems at Namik Kemal University in Tekirdağ.

YKK EGYPT S.A.E. private free zone

Country:	EGYPT
Location:	Ramadan
Business area(s):	Fastener manufacture
Number of employees:	118
Land area:	16,800 m ²
Total built area:	12,900 m ²
ISO 14001 certification date:	Apr. 25, 2002

< 2007 fiscal year environmental impact data >

Amount of electric power used	1,608,000 kWh
Amount of fossil fuel used	8,741 GJ
Amount of CO ₂ emitted	1,038 t
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Total amount of waste products emitted	10.7 t
Amount of recycled material	10.7 t
Recycling rate	100.0%
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Amount of copy paper used	2.3 t
Amount of water used	62,700 m ³

Water discharge standards	Unit	Legal standards	Applicable standards	Measured values
BOD	mg/l	600	600	126
COD	mg/l	1100	1100	214
SS	mg/l	800	800	21
Oil	mg/l	100	100	24.1
pH	-	6-9.5	6-9.5	7.66
Copper (Cu)	mg/l	0.02	0.02	0.01
Water discharge destination	Public sewers			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We completed an overhaul on the plant's wastewater treatment equipment in November.

YKK SOUTHERN AFRICA (PTY) LTD.

Country:	SWAZILAND
Location:	Manzini
Business area(s):	Fastener manufacture
Number of employees:	196
Land area:	33,900 m ²
Total built area:	24,000 m ²
ISO 14001 certification date:	Nov. 13, 2003

< 2007 fiscal year environmental impact data >

Amount of electric power used	2,748,000 kWh
Amount of fossil fuel used	18,673 GJ
Amount of CO ₂ emitted	2,722 t

Total amount of waste products emitted	27 t
Amount of recycled material	25 t
Recycling rate	93.9%

Amount of copy paper used	2.7 t
Amount of water used	41,100 m ³

Water discharge standards	Unit	Accepted standards	Measured values
COD	mg/l	500	519
pH	-	5.5-9.5	9.8
Water discharge destination	Public wastewater treatment plant		

● Leaks, discharge accidents, legal violations, etc.

COD and pH values of wastewater exceeded the standard values.

● Topics

YKK Southern Africa served as chair of the Swaziland Safety, Health, Environmental and Quality Forum comprised of major corporations in Swaziland. The country's environmental activities were discussed and evaluated at the forum.

YKK PORTUGAL-ACESSORIOS PARA VESTUARIO LDA.

Country:	PORTUGAL
Location:	Alenquer
Business area(s):	Fastener manufacture
Number of employees:	54
Land area:	20,000 m ²
Total built area:	5,500 m ²
ISO 14001 certification date:	Sept. 17, 2003

< 2007 fiscal year environmental impact data >

Amount of electric power used	583,000 kWh
Amount of fossil fuel used	4,647 GJ
Amount of CO ₂ emitted	470 t
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Total amount of waste products emitted	54 t
Amount of recycled material	43 t
Recycling rate	78.8%
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Amount of copy paper used	0.9 t
Amount of water used	9,500 m ³

Water discharge standards	Unit	Legal standards	Accepted standards	Measured values
BOD	mg/l	40	500	49
COD	mg/l	150	1000	200
SS	mg/l		500	35
pH	-	6.0-9.0	6.0-9.0	8.7
Copper (Cu)	mg/l	1	1	<0.05
Zinc (Zn)	mg/l	0.5	5	0.16
Water discharge destination	Public wastewater treatment plant			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We increased the amount of re-used chips by 23% over the previous year and cut down on the amount of virgin materials used.
- We reduced our paper use by 25% compared to the previous year.
- We built a smoking room outside the building and made the entire inside of the plant a smoke-free zone.

THE NEW ZIPPER COMPANY LTD.

Country: UNITED KINGDOM
 Location: Slough, Berkshire
 Business area(s): Fastener manufacture
 Number of employees: 30
 Land area: 2,000 m²
 Total built area: 2,000 m²
 ISO 14001 certification date: Apr. 2, 2004

< 2007 fiscal year environmental impact data >

Amount of electric power used	266,000 kWh
Amount of fossil fuel used	120 GJ
Amount of CO ₂ emitted	108 t
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Total amount of waste products emitted	0.9 t
Amount of recycled material	0.3 t
Recycling rate	34.5%
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Amount of copy paper used	0.1 t
Amount of water used	2,800 m ³

Water discharge standards	
	Only daily use water and machine cooling water discharged
Water discharge destination	Sewers

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We consolidated three management system standards (ISO 9001, ISO 14001 and OHAS 18001).
- By recovering compressor heat, we were able to reduce the amount of gas used for heating.

YKK NEDERLAND BV

Country:	NETHERLANDS
Location:	Sneek, Friesland
Business area(s):	Fastener manufacture
Number of employees:	34
Land area:	24,000 m ²
Total built area:	6,800 m ²
ISO 14001 certification date:	May 27, 2004

< 2007 fiscal year environmental impact data >

Amount of electric power used	280,000 kWh
Amount of fossil fuel used	3,768 GJ
Amount of CO ₂ emitted	292 t
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Total amount of waste products emitted	16.7 t
Amount of recycled material	10.1 t
Recycling rate	60.7%
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Amount of copy paper used	0.5 t
Amount of water used	1,700 m ³

Water discharge standards	Unit	Legal standards	Measured values
BOD	mg/l	50	No measurements by local government.
COD	mg/l	1500	
SS	mg/l	52	
Oil	mg/l	200	
pH	-	6.5-10	
Cadmium (Cd)	mg/l	0.009	
Cyanide (CN)	mg/l	1	
Nitrogen (N)	mg/l	100	
Phosphorus (P)	mg/l	2	
Copper (Cu)	mg/l	0.75	
Lead (Pb)	mg/l	0.5	
Nickel (Ni)	mg/l	0.075	
Zinc (Zn)	mg/l	0.5	
Selenium (Se)	mg/l	0.16	
Tin (Sn)	mg/l	0.5	
Water discharge destination	Public sewage processing plant		

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We installed energy-saving heaters which enabled us to reduce the amount of natural gas used by 5%.
- We provided a tour of the plant to Japanese and Dutch students as part of a student interaction program.

YKK SNAP FASTENERS ITALIA S.P.A.

Country:	ITALY
Location:	Colonnella
Business area(s):	S&B manufacture
Number of employees:	53
Land area:	14,700 m ²
Total built area:	6,400 m ²
ISO 14001 certification date:	May 19, 2004

< 2007 fiscal year environmental impact data >

Amount of electric power used	1,717,000 kWh
Amount of fossil fuel used	3,781 GJ
Amount of CO ₂ emitted	841 t
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Total amount of waste products emitted	48 t
Amount of recycled material	42 t
Recycling rate	87.6%
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Amount of copy paper used	1.0 t
Amount of water used	10,900 m ³

Water discharge standards	Unit	Legal standards	Applicable standards	Measured values
COD	mg/l	160	160	61
SS	mg/l	80	80	12
pH	-	5.5-9.5	5.5-9.5	7.2
Hexavalent chromium (Cr VI)	mg/l	0.2	0.2	<0.05
Nitrogen (N)	mg/l	20	20	<5
Phosphorus (P)	mg/l	10	10	0.86
Copper (Cu)	mg/l	0.1	0.1	0.05
Lead (Pb)	mg/l	0.2	0.2	<0.05
Nickel (Ni)	mg/l	2	2	0.07
Zinc (Zn)	mg/l	0.5	0.5	0.05
Tin (Sn)	mg/l	10	10	<0.05
Water discharge destination	River			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We upgraded our phase compensation equipment to utilize electric power more efficiently.
- We removed the asbestos in the roof to prevent asbestos pollution.

YKK MEDITERRANEO SPA

Country:	ITALY
Location:	Ascoli Piceno
Business area(s):	Fastener parts manufacture
Number of employees:	189
Land area:	50,000 m ²
Total built area:	25,000 m ²
ISO 14001 certification date:	Nov. 29, 2004

< 2007 fiscal year environmental impact data >

Amount of electric power used	13,604,000 kWh
Amount of fossil fuel used	52,567 GJ
Amount of CO ₂ emitted	7,825 t
Total amount of waste products emitted	1,548 t
Amount of recycled material	1,465 t
Recycling rate	94.6%
Amount of copy paper used	6.6 t
Amount of water used	91,500 m ³

Water discharge standards	Unit	Legal standards	Voluntary management standards	Measured values
BOD	mg/l	250	213	21
COD	mg/l	500	425	55
SS	mg/l	200	170	10
pH	-	5.5-9.5	6-9	8.03
Cadmium (Cd)	mg/l	0.02	0.02	<0.01
Cyanide (CN)	mg/l	1	1	0.01
Hexavalent chromium (Cr VI)	mg/l	0.2	0.2	<0.05
Nitrogen (N)	mg/l	30	26	0.1
Phosphorus (P)	mg/l	10	9	1.8
Copper (Cu)	mg/l	0.4	0.3	0.06
Lead (Pb)	mg/l	0.3	0.3	<0.05
Nickel (Ni)	mg/l	4	3	0.07
Zinc (Zn)	mg/l	1	1	0.07
Water discharge destination	Sewers			

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

We installed active carbon filters to reduce the amount of VOCs released into the air.

YKK POLAND SP.ZO.O.

Country:	POLAND
Location:	Mszczonow
Business area(s):	Fastener manufacture
Number of employees:	115
Land area:	30,000 m ²
Total built area:	13,000 m ²
ISO 14001 certification date:	May 23, 2005

< 2007 fiscal year environmental impact data >

Amount of electric power used	1,293,000 kWh
Amount of fossil fuel used	13,875 GJ
Amount of CO ₂ emitted	1,205 t

Total amount of waste products emitted	61 t
Amount of recycled material	49 t
Recycling rate	80.1%

Amount of copy paper used	2.5 t
Amount of water used	35,800 m ³

Water discharge standards	Unit	Accepted standards	Measured values
BOD	mg/l	700	133
COD	mg/l	1000	233
SS	mg/l	700	84
pH	-	6.5-9.5	8.4
Cadmium (Cd)	mg/l	0.05	0.005
Cyanide (CN)	mg/l	Undetected	0.015
Hexavalent chromium (Cr VI)	mg/l	0.5	0.03
Nitrogen (N)	mg/l	80	42.6
Phosphorus (P)	mg/l	15	2.8
Copper (Cu)	mg/l	0.2	0.03
Lead (Pb)	mg/l	0.2	0.06
Nickel (Ni)	mg/l	0.4	0.06
Zinc (Zn)	mg/l	2.0	0.47
Water discharge destination	Wastewater treatment plant		

● Leaks, discharge accidents, legal violations, etc.

The wastewater cyanide value exceeded acceptable levels. We are currently investigating the cause and will correct the problem as soon as possible.

YKK ROMANIA SRL

Country:	ROMANIA
Location:	Bucharest
Business area(s):	Fastener manufacture
Number of employees:	115
Land area:	48,000 m ²
Total built area:	6,500 m ²
ISO 14001 certification date:	Dec. 11, 2006

< 2007 fiscal year environmental impact data >

Amount of electric power used	968,000 kWh
Amount of fossil fuel used	12,684 GJ
Amount of CO ₂ emitted	1,006 t
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Total amount of waste products emitted	25 t
Amount of recycled material	17 t
Recycling rate	65.7%
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Amount of copy paper used	1.4 t
Amount of water used	30,300 m ³

Water discharge standards	Unit	Legal standards	Applicable standards	Measured values
BOD	mg/l	300	300	231
COD	mg/l	500	500	422
SS	mg/l	350	350	38
Oil	mg/l	30	30	21
pH	-	6.5-8.5	6.5-8.5	7.11
Water discharge destination	Public sewage processing plant			

● Leaks, discharge accidents, legal violations, etc.

None

YKK AUSTRIA GMBH

Country:	AUSTRIA
Location:	Marz, Burgenland
Business area(s):	Fastener manufacture
Number of employees:	32
Land area:	12,100 m ²
Total built area:	5,300 m ²
ISO 14001 certification date:	—

< 2007 fiscal year environmental impact data >

Amount of electric power used	238,000 kWh
Amount of fossil fuel used	1,767 GJ
Amount of CO ₂ emitted	180 t
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Total amount of waste products emitted	12.0 t
Amount of recycled material	5.0 t
Recycling rate	41.9%
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Amount of copy paper used	1.0 t
Amount of water used	300 m ³

Water discharge standards	
	Discharge of only daily use water
Water discharge destination	Public sewers

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

We installed special waste receptacles for each kind of waste to more thoroughly manage our waste.

YKK MAROC S.A.R.L.

Country: MOROCCO
 Location: Casablanca
 Business area(s): Fastener manufacture
 Number of employees: 35
 Land area: 2,200 m²
 Total built area: 2,000 m²
 ISO 14001 certification date: —

< 2007 fiscal year environmental impact data >

Amount of electric power used	260,000 kWh
Amount of fossil fuel used	1,691 GJ
Amount of CO ₂ emitted	195 t

Total amount of waste products emitted	13.4 t
Amount of recycled material	9.6 t
Recycling rate	71.8%

Amount of copy paper used	1.4 t
Amount of water used	1,200 m ³

Water discharge standards	Unit	Accepted standards	Measured values
BOD	mg/l	500	91
COD	mg/l	1200	310
SS	mg/l	500	53
pH	-	5.5-8.5	7.4
Water discharge destination	Public wastewater treatment plant		

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

The dyeing process was launched in July 2007, and wastewater treatment equipment was installed.

YKK DANMARK A/S

Country:	DENMARK
Location:	Ikast
Business area(s):	Fastener manufacture
Number of employees:	24
Land area:	4,100 m ²
Total built area:	2,000 m ²
ISO 14001 certification date:	—

< 2007 fiscal year environmental impact data >

Amount of electric power used	73,000 kWh
Amount of fossil fuel used	1,069 GJ
Amount of CO ₂ emitted	101 t
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Total amount of waste products emitted	10.4 t
Amount of recycled material	4.4 t
Recycling rate	41.7%
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Amount of copy paper used	1.1 t
Amount of water used	100 m ³

Water discharge standards	
	Discharge of only daily use water
Water discharge destination	Public sewers

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

- We switched to energy-saving oil burners, which enabled us to reduce light oil usage by 3% or 500 liters per year.
- We check for air leaks in the processes frequently to reduce the amount of energy used by the compressors.

YKK TUNISIA SARL

Country:	TUNISIA
Location:	Sousse
Business area(s):	Fastener manufacture
Number of employees:	39
Land area:	1,700 m ²
Total built area:	1,700 m ²
ISO 14001 certification date:	—

< 2007 fiscal year environmental impact data >

Amount of electric power used	156,000 kWh
Amount of fossil fuel used	2,206 GJ
Amount of CO ₂ emitted	208 t
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Total amount of waste products emitted	11.9 t
Amount of recycled material	11.4 t
Recycling rate	96.2%
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Amount of copy paper used	1.8 t
Amount of water used	400 m ³

Water discharge standards	
	Discharge of only daily use water
Water discharge destination	Public sewers

● Leaks, discharge accidents, legal violations, etc.

None

● Topics

Metal scraps, our main waste product, are recycled for materials by an outside contractor, and we have increased recycling rates for cardboard, paper and wood scraps through government recycling routes.