

Fact Book

ASMO CO.,LTD.

Location : 390, Umeda, Kosai, Shizuoka
 Main products : Small motors
 No. employees : 4,642

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)		
Input	Energy use (GJ)	1,353,669		
	Water consumption (m ³)	580,353		
	Chemicals handled (t)	149.75		
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	56,858	
		5 gas (t-CO ₂)	/	
		CO ₂ from distribution (t-CO ₂)	5,851	
	Air	Particulate matter (t)	0	
		NOx (t)	20.77	
		SOx (t)	13.87	
	Water quality	Water consumption (m ³)	440,976	
		BOD (t)	BOD (t)	1.01
			COD (t)	2.30
			Nitrogen (t)	3.56
Phosphorus (t)			0.07	
Chemicals		Releases (t)	42.62	
		Transfers (t)	8.23	
Waste		Resources recycled/reused	External recycling (Receive money) (t)	39,427.9
			External recycling (Pay money) (t)	1,424.9
		Waste produced (t)	In-house recycling (t)	-
	Waste produced (t)		0	

Air/Headquarters

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.25	0.05	ND
	NOx (ppm)	130	110	95.3
	SOx (-) [k value]	17.5	5	0.34
Gas turbine	Particulate matter (g/Nm ³)	0.05	0.05	ND
	NOx (ppm)	70	68	32
	SOx (-) [k value]	17.5	17.5	0.73

Air/Toyohashi Plant

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.1	0.03	ND
	NOx (ppm)	130	110	68
	SOx (-) [k value]	8.76	2	ND

Water quality/Headquarters

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.0~8.4	7.5	6.8	7.1
BOD(mg/L)	20	12	8.8	ND	2.4
COD(mg/L)	20	12	7.1	3.5	5.1
Zinc (mg/l)	1	0.4	0.06	0.01	0.03
Colon bacillus (#/ml)	3,000	300	20	0	5.3
Total nitrogen (mg/l)	120	25	17.3	3.2	8.5
Total phosphorus (mg/l)	16	2	0.5	0.09	0.17
Nitric acid, nitrous acid, and ammonia nitrogen(mg/l)	100	100	6.5	5	5.8
SS (mg/l)	30	12	1.5	ND	ND
Phenol (mg/l)	0.15	0.2	0.01	ND	0.001

Water quality/Toyohashi Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.0~8.4	7.8	6.8	7.3
BOD (mg/l)	25	10	6	0.5	1.7
COD (mg/l)	25	12	8.9	3.9	5.8
Zinc (mg/l)	5	2	0.07	0.01	0.02
Colon bacillus (#/ml)	3,000	150	21	0	4.3
Total nitrogen (mg/l)	120	15	9.6	3.3	6.2
Total phosphorus (mg/l)	16	1.5	0.29	0.02	0.09
Nitric acid, nitrous acid, and ammonia nitrogen(mg/l)	100	100	3.9	3.9	3.9
SS (mg/l)	30	12	3.1	ND	0.18
Mineral oil(mg/l)	2	1.5	1.1	ND	ND
Fluorine (mg/l)	8	4	0.2	0.1	0.16
manganese (mg/l)	10	5	0.2	ND	ND
Phenol (mg/l)	0.5	0.3	0.01	0.01	0.002

Water quality/Hiroshima Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
BOD (mg/l)	90	80	13	4.4	7.9

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Zinc compound (water-soluble)	2,383	0	0	0	402	0	90	0	1,891
2-ethoxyethyl acetate	18,993	18,993	0	0	0	0	0	0	0
3-(3,4-dichlorophenyl)-1,1-dimethylurea	1,146	0	0	0	23	0	0	0	1,123
1,3,5,7-tetra(hexamethylenetetramine)	61,650	0	0	0	5,074	0	0	0	56,576
Toluene	8,430	8,430	0	0	0	0	0	0	0
Lead and its compounds	6,054	0	0	0	0	630	0	0	5,433
Phenol	16,078	0	0	0	1,366	0	0	0	14,712
4,4'-isopropylidenediphenol and 1-chloro-...	14,494	0	0	0	586	0	0	0	13,908
Methyl methacrylate	3,112	0	0	0	777	0	0	0	2,335
Ethyl benzene	1,275	305	0	0	0	970	0	0	0
Ethylene glycol monoethyl ether	7,422	7,422	0	0	0	0	0	0	0
Xylenes	7,121	6,068	0	0	0	970	0	83	0
Dichloropentafluoropropane	1,592	1,400	0	0	0	192	0	0	0

DENSO TAIYO CO.,LTD.

Location : 28-1, Kitahama, Katahara-cho, Gamagori
 Main products : Instrument clusters
 No. employees : 222

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)		
Input	Energy use (GJ)	10,171		
	Water consumption (m ³)	15,266		
	Chemicals handled (t)	0		
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	440	
		5 gas (t-CO ₂)	/	
		CO ₂ from distribution (t-CO ₂)	/	
	Air	Particulate matter (t)	0.01	
		NOx (t)	1.45	
		SOx (t)	0.04	
	Water quality	Water consumption (m ³)	15,266	
		BOD (t)	BOD (t)	/
			COD (t)	/
			Nitrogen (t)	/
Phosphorus (t)			/	
Chemicals		Releases (t)	0	
		Transfers (t)	0	
Waste		Resources recycled/reused	External recycling (Receive money) (t)	0.3
			External recycling (Pay money) (t)	9.2
		Waste produced (t)	In-house recycling (t)	0
	Waste produced (t)		0.0	

Air

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	1	1	0.008
	NOx (ppm)	180	180	70
	SOx (-) [k value]	8.76	8.76	0.104

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

*The actual measurements shown refer to maximum values with respect to the control values for each particular installation. ※Facilities below a specified size (excluded under legal and other regulations) are not included.

ANDEN CO.,LTD.

Location : 3 Iyama, Shinome-cho, Anjo, Aichi
 Main products : Relays, Electronic controllers
 No. employees : 1,194

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)		
Input	Energy use (GJ)	322,192		
	Water consumption (m ³)	80,578		
	Chemicals handled (t)	33.07		
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	13,347	
		5 gas (t-CO ₂)	/	
		CO ₂ from distribution (t-CO ₂)	12	
	Air	Particulate matter (t)	-	
		NOx (t)	/	
		SOx (t)	/	
	Water quality	Water consumption (m ³)	30,318	
		BOD (t)		0.12
			COD (t)	0.20
			Nitrogen (t)	0.47
		Phosphorus (t)		0.08
			Releases (t)	6.69
			Transfers (t)	1.72
		Waste	Resources recycled/reused	2,169.7
			External recycling (Receive money) (t)	677.7
External recycling (Pay money) (t)			0.0	
In-house recycling (t)			0.6	
Waste produced (t)		0.6		

Air

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.2	0.2	0.1
	NOx (ppm)	/	/	/
	SOx (-) [k value]	/	/	/

Water quality/Headquarters

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	6.5~8.5	6.5~8.5	7.2	6.8	7.1
BOD (mg/l)	20	20	7.1	3.5	5.2
COD (mg/l)	20	20	15.7	8.2	11.7
Mineral oil(mg/l)	4	4	1.1	0.3	0.7
Vegetable oil(mg/l)	10	10	1.1	0.3	0.7
Total nitrogen (mg/l)	40	40	39	17	26.4
Total phosphorus (mg/l)	4	4	3.9	1.4	0

Water quality/Okazaki Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	6.5~8.5	6.5~8.5	7.4	7	7.2
BOD (mg/l)	10	10	5.6	2.6	3.5
COD (mg/l)	10	10	5.8	3.1	4.3
Mineral oil(mg/l)	2	2	0.5	0.2	0.3
Vegetable oil(mg/l)	5	5	0.5	0.2	0.3
Total nitrogen (mg/l)	40	40	25	4.9	10.5
Total phosphorus (mg/l)	4	4	3.8	1.7	2.8
SS (mg/l)	10	10	0.6	0.2	0.4

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Toluene	1,894	1,470	0	0	424	0	0	0	0
Xylenes	6,517	5,224	0	0	1,293	0	0	0	0
Lead	24,660	0	0	0	0	8,494	0	0	16,166

HAMANAKO DENSO CO.,LTD.

Location : 136, Washizu, Kosai, Shizuoka
 Main products : VSV(Vacuum Switching Valve), Magnetic switches, Horns
 No. employees : 1,288

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)		
Input	Energy use (GJ)	282,533		
	Water consumption (m ³)	164,216		
	Chemicals handled (t)	0		
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	11,563	
		5 gas (t-CO ₂)	/	
		CO ₂ from distribution (t-CO ₂)	121	
	Air	Particulate matter (t)	0	
		NOx (t)	0	
		SOx (t)	0	
	Water quality	Water consumption (m ³)	164,216	
		BOD (t)		1.98
			COD (t)	8.75
			Nitrogen (t)	28.50
		Phosphorus (t)		4.98
			Releases (t)	0
			Transfers (t)	0
		Waste	Resources recycled/reused	16.6
			External recycling (Receive money) (t)	206.1
External recycling (Pay money) (t)			0	
In-house recycling (t)			0	
Waste produced (t)		0		

Water quality/Headquarters

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.8~8.6	7.3	7.1	7.19
BOD (mg/l)	20	15	8.7	1.0	3.0
COD (mg/l)	20	15	12.8	8.0	10.7
SS (mg/l)	30	30	13.9	5.3	10.7

Water quality/Yoshimi Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	6.0~8.0	6.2~8.2	7.6	7.1	7.3
BOD (mg/l)	10	4.5	1.2	1.2	1.2
COD (mg/l)	3.0	2.0	1.6	0.7	1.3
SS (mg/l)	3.0	2.5	1.4	0.1	0.8

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

*The actual measurements shown refer to maximum values with respect to the control values for each particular installation. ※Facilities below a specified size (excluded under legal and other regulations) are not included.

DAISHINSEIKI CO.,LTD.

■ Location : 200 Ohayashi, Kume, Tokoname, Aichi
 ■ Main products : Products for Fuel injection systems
 ■ No. employees : 639

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)
Input	Energy use (GJ)	188,215
	Water consumption (m ³)	22,815
	Chemicals handled (t)	0
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	7,575
	5 gas (t-CO ₂ e)	/
	CO ₂ from distribution (t-CO ₂)	195
	Particulate matter (t)	0.15
Air	NOx (t)	0.35
	SOx (t)	0.07
	Water consumption (m ³)	14,861
Water quality	BOD (t)	0.04
	COD (t)	0.17
	Nitrogen (t)	0.30
	Phosphorus (t)	0.04
Chemicals	Releases (t)	0
	Transfers (t)	0
Waste	Resources recycled/reused	External recycling (Receive money) (t) 1,058.0 External recycling (Pay money) (t) 655.5 In-house recycling (t) 0
	Waste produced (t)	7.4

Air

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.1	0.1	0.04
	NOx (ppm)	140	140	46.5
	SOx (-) [k value]	1.5	1.5	0.1

Water quality

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.8~8.6	7.5	7.1	7.3
BOD (mg/l)	12.5	12.5	3.6	1.7	2.4
COD (mg/l)	25	25	15	8.8	11.4
SS (mg/l)	15	15	4	1	2
Oil (mg/l)	2	2	0.5	0.5	0.5
Zinc (mg/l)	2.5	2.5	0.26	0.1	0.18
Soluble iron (mg/l)	5	5	0.6	0.6	0.6
Copper (mg/l)	0.5	0.5	0.01	0.01	0.01
Colon bacillus (#/ml)	3,000	3,000	320	30	175
Total nitrogen (mg/l)	40	40	39	11	21.3
Total phosphorus (mg/l)	4	4	3.1	2	2.8

DENSO ELECS CO.,LTD.

■ Location : 50 Kojiritsuki, Hitotsugi-cho, Kariya, Aichi
 ■ Main products : Products for Electronics, Electronic Measurements
 ■ No. employees : 256

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)
Input	Energy use (GJ)	27,137
	Water consumption (m ³)	/
	Chemicals handled (t)	1.82
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	287
	5 gas (t-CO ₂ e)	/
	CO ₂ from distribution (t-CO ₂)	/
Air	Particulate matter (t)	/
	NOx (t)	/
	SOx (t)	/
Water quality	Water consumption (m ³)	/
	BOD (t)	/
	COD (t)	/
	Nitrogen (t)	/
Chemicals	Releases (t)	0
	Transfers (t)	0
Waste	Resources recycled/reused	External recycling (Receive money) (t) 19.6 External recycling (Pay money) (t) 5.4 In-house recycling (t) 0
	Waste produced (t)	0

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Lead and its compounds	1,822	0	0	0	0	1,088	0	0	470

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

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KYOSANDENKI CO.,LTD.

Location : 11-3 Okazato, Sowa-cho, Sashima-gun, Ibaragi
 Main products : Pumps, Filters, Valves
 No. employees : 1,651

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)		
Input	Energy use (GJ)	257,815		
	Water consumption (m ³)	261,366		
	Chemicals handled (t)	16.70		
	Greenhouse gases			
	CO ₂ from production activities (t-CO ₂)	10,288		
	5 gas (t-CO ₂)	/		
	CO ₂ from distribution (t-CO ₂)	1,975		
Output	Air			
		Particulate matter (t)	0.15	
		NOx (t)	0.69	
		SOx (t)	0.90	
	Water consumption (m ³)	172,573		
	Water quality			
			BOD (t)	1.25
			COD (t)	1.39
			Nitrogen (t)	1.75
	Chemicals			
		Phosphorus (t)	0.09	
Waste				
		Releases (t)	4.26	
		Transfers (t)	0.03	
	Resources recycled/reused			
			External recycling (Receive money) (t)	1,645.2
	External recycling (Pay money) (t)	550.3		
	In-house recycling (t)	0.0		
	Waste produced (t)	0		

■ Air/Sea/Soil

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.3	0.18	0.042
	NOx (ppm)	180	108	75
	SOx (-) [k value]	11	6.6	1.09

■ Air/Sea/Soil

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.3	0.18	0.06
	NOx (ppm)	180	108	74
	SOx (-) [k value]	11	6.6	0.21

■ Water quality/First Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.3~8.1	8	6.7	7.74
BOD (mg/l)	40	24	17.8	1.4	6.3
COD (mg/l)	40	24	8	6.7	7.4
SS (mg/l)	65	39	15.5	0.5	5.2
Oil (mg/l)	5	3	2.4	0	0.4
Copper (mg/l)	3	1.8	0.07	0.01	0.02
Zinc (mg/l)	5	3	0.06	0.02	0.04
Soluble iron (mg/l)	10	6	0.16	0.04	0.08
Soluble manganese (mg/l)	1	0.6	0.02	0.02	0.02
Chrome (mg/l)	1	0.6	0	0	0
Total nitrogen (mg/l)	120	72	7.4	1.52	4.25
Total phosphorus (mg/l)	16	9.6	1.21	0.38	0.77
Boron(mg/l)	10	6	0	0	0
<small>Nitric acid, nitrous acid, and ammonia nitrogen(mg/l)</small>	100	60	0	0	0

■ Water quality/Second Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.3~8.1	7.8	6.6	7.2
BOD (mg/l)	25	15	16	2.9	8.8
COD (mg/l)	25	15	14.7	5.5	9.6
SS (mg/l)	40	24	22	0.5	4.1
Oil (mg/l)	5	3	2.8	0	0.39
Copper (mg/l)	3	1.8	0.38	0.02	0.08
Zinc (mg/l)	5	3	2.36	0.39	1.0
Soluble iron (mg/l)	10	6	0.33	0.08	0.14
Soluble manganese (mg/l)	1	0.6	0.02	0.02	0.02
Chrome (mg/l)	1	0.6	0.27	0.22	0.08
Total nitrogen (mg/l)	120	72	26	1.8	14.3
Total phosphorus (mg/l)	16	9.6	0.56	0.24	0.4
Boron(mg/l)	10	6	0	0	0
<small>Nitric acid, nitrous acid, and ammonia nitrogen(mg/l)</small>	100	60	23.9	10.2	1.7
Cyanide(mg/l)	1	0.6	0.32	0	0.04
Hexavalent chrome (mg/l)	0.5	0.3	0.1	0	0.02

■ PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Inorganic cyanide compound	1,252	0	5	0	30	0	1,217	0	0
Toluene	5,542	721	0	0	0	0	0	4,821	0
Xylenes	4,506	1,920	0	0	0	0	0	2,586	0
Hexamethylenetetramine	1,140	0	2	0	0	0	1,115	0	23
Ethyl benzene	2,126	1,616	0	0	0	0	0	510	0
Phenol	1,014	0	0	0	0	0	0	0	1,014
Bisphenol-A epoxy resin	1,119	0	0	0	0	0	0	0	1,119

DENSO KATSUYAMA CO.,LTD.

Location : 220 Mita, Katsuyama-cho, Maniwa-gun, Okayama
 Main products : Plastics of automotive components
 No. employees : 159

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)	
Input	Energy use (GJ)	34,972	
	Water consumption (m ³)	3,596	
	Chemicals handled (t)	0	
	Greenhouse gases		
	CO ₂ from production activities (t-CO ₂)	1,441	
	5 gas (t-CO ₂)	/	
	CO ₂ from distribution (t-CO ₂)	158	
Output	Air		
		Particulate matter (t)	/
		NOx (t)	/
		SOx (t)	/
Water consumption (m ³)	/		
Water quality			
		BOD (t)	/
		COD (t)	/
		Nitrogen (t)	/
Chemicals			
		Phosphorus (t)	/
Waste			
		Releases (t)	0
		Transfers (t)	0
	Resources recycled/reused		
			External recycling (Receive money) (t)
	External recycling (Pay money) (t)	86.0	
	In-house recycling (t)	0	
	Waste produced (t)	3.7	

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

★The actual measurements shown refer to maximum values with respect to the control values for each particular installation. ※Facilities below a specified size (excluded under legal and other regulations) are not included.

GAC CORPORATION

Location : 1000 Toyoshina, Toyoshina-cho, Minami-azumi-gun, Nagano
 Main products : Car air conditioners, Air conditioners
 No. employees : 792

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)
Input	Energy use (GJ)	175,626
	Water consumption (m ³)	339,563
	Chemicals handled (t)	11.19
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	7,933
	5 gas (t-CO ₂)	12,384
	CO ₂ from distribution (t-CO ₂)	344
	Particulate matter (t)	0.47
Air	NOx (t)	53.27
	SOx (t)	2.32
	Water consumption (m ³)	333,531
Output	BOD (t)	1.43
	COD (t)	1.97
	Nitrogen (t)	3.36
	Phosphorus (t)	0.52
	Releases (t)	11.19
Chemicals	Transfers (t)	0
	Resources recycled/reused	424.4
Waste	External recycling (Receive money) (t)	391.7
	External recycling (Pay money) (t)	3.6
	In-house recycling (t)	3.3
Waste produced (t)	0	

Air/Toyoshina Plant

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.3	0.3	0.004
	NOx (ppm)	250	250	83
	SOx (-) [k value]	17.5	17.5	0.42
Gas turbine	Particulate matter (g/Nm ³)	0.1	0.1	0.005
	NOx (ppm)	950	950	873
	SOx (-) [k value]	17.5	17.5	0.57

Air/Hodaka Plant

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.1	0.1	0.0027
	NOx (ppm)	150	150	73
	SOx (-) [k value]	17.5	17.5	0.02
Gas turbine	Particulate matter (g/Nm ³)	0.1	0.1	0.001
	NOx (ppm)	950	950	770
	SOx (-) [k value]	17.5	17.5	0.42

Water quality/Toyoshina Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	8.6	8.6	7.9	7	7.4
BOD (mg/l)	30	30	6.5	3	4.3
COD (mg/l)	160	160	8.4	4.2	6
SS (mg/l)	50	50	3	2	2.5
Oil (mg/l)	5	5	1	0.5	0.75
Trichloroethylene(mg/L)	0.3	0.3	0.0006	0.0002	0.0004
Copper (mg/l)	2	2	0.04	0.02	0.03
Zinc (mg/l)	3	3	0.14	0.05	0.08
Soluble iron (mg/l)	10	10	0.05	0.03	0.04
Dichloromethane(mg/L)	0.2	0.2	0.0003	0.0002	0.0002
Fluorine (mg/l)	8	8	0.4	0.2	0.3
1,1,1-Trichloromethane(mg/L)	3	3	0.0007	0.0007	0.0007
Total nitrogen (mg/l)	120	120	14	6	10.5
Total phosphorus (mg/l)	16	16	0.83	0.21	0.5
Boron(mg/l)	10	10	0.07	0.05	0.06
Nitric acid, nitrous acid, and ammonia nitrogen(mg/l)	100	100	1.1	4.6	7.4

Water quality/Hodaka Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	8.6	8.6	7.8	7.3	7.6
BOD (mg/l)	30	30	3.6	1.2	2.1
COD (mg/l)	160	160	4.6	1.9	3.2
SS (mg/l)	50	50	19	3	11
Oil (mg/l)	5	5	0.6	0.5	0.6
Zinc (mg/l)	5	5	2	2	2
Soluble iron (mg/l)	10	10	0.07	0.03	0.05
Fluorine (mg/l)	8	8	1.1	0.2	0.5
Total nitrogen (mg/l)	120	120	5.7	4	5
Total phosphorus (mg/l)	16	16	5.9	0.3	2.4
Boron(mg/l)	10	10	0.05	0.04	0.05
Nitric acid, nitrous acid, and ammonia nitrogen(mg/l)	100	100	3.9	2.8	3.3

PRTR

Substance	Amount handled	Amount emitted			Amount transported	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Toluene	5,712	5,712	0	0	0	0	0	0	0
Xylenes	5,479	5,479	0	0	0	0	0	0	0

DENSO REMANI CORPORATION

Location : 2-1 Nagane, Sato-cho, Anjo, Aichi(DENSO Anjo Plant)
 Main products : Remanufacture of Starters and Alternators
 No. employees : 49

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)
Input	Energy use (GJ)	0
	Water consumption (m ³)	0
	Chemicals handled (t)	0
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	/
	5 gas (t-CO ₂)	/
	CO ₂ from distribution (t-CO ₂)	48
	Particulate matter (t)	/
Air	NOx (t)	/
	SOx (t)	/
	Water consumption (m ³)	/
Output	BOD (t)	/
	COD (t)	/
	Nitrogen (t)	/
	Phosphorus (t)	/
	Releases (t)	0
Chemicals	Transfers (t)	0
	Resources recycled/reused	141.4
Waste	External recycling (Receive money) (t)	3.9
	External recycling (Pay money) (t)	0
	In-house recycling (t)	0
Waste produced (t)	0	

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions.
 SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

★The actual measurements shown refer to maximum values with respect to the control values for each particular installation.
 ※Facilities below a specified size (excluded under legal and other regulations) are not included.

DENSOTRIM CO.,LTD.

■ Location : 2460 Akasaka, Ogohara, Komono-cho, Mie-gun, Mie
 ■ Main products : Magnets for motorbikes
 ■ No. employees : 538

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

■ Comprehensive Environmental Facts

Category		Amount (measured level)	
Input	Energy use (GJ)	106,588	
	Water consumption (m ³)	15,874	
	Chemicals handled (t)	6.28	
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	4,281
		5 gas (t-CO ₂)	/
		CO ₂ from distribution (t-CO ₂)	335
	Air	Particulate matter (t)	/
		NOx (t)	/
		SOx (t)	/
	Water consumption (m ³)	12,016	
	Water quality	BOD (t)	0.07
		COD (t)	0.16
		Nitrogen (t)	0.27
Phosphorus (t)		0.06	
Chemicals	Releases (t)	2.17	
	Transfers (t)	0	
Waste	Resources recycled/reused	External recycling (Receive money) (t)	1,010.3
		External recycling (Pay money) (t)	191.9
		In-house recycling (t)	23.7
	Waste produced (t)	1.0	

■ Water quality

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.9~8.5	7.7	7	7.3
BOD (mg/l)	160	144	7.5	0.8	2.9
COD (mg/l)	160	144	18	5.1	13.4
SS (mg/l)	200	180	11	1	3.5
Oil (mg/l)	5	4.75	0.7	0.5	0.5
Colon bacillus (#/ml)	30,000	2,400	510	30	110
Total nitrogen (mg/l)	120	108	38	6.8	21.8
Total phosphorus (mg/l)	16	16	7.4	3.6	5.3

■ PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Xylenes	2,172	2,172	0	0	0	0	0	0	0
4,4'-isopropylidenediphenol and 1-chloro-....	4,104	0	0	0	0	375	0	0	3,729

DENSO PREAS CO.,LTD.

■ Location : 2-58 Nishi-sakuragi-cho, Toyokawa, Aichi
 ■ Main products : Press Components
 ■ No. employees : 145

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

■ Comprehensive Environmental Facts

Category		Amount (measured level)	
Input	Energy use (GJ)	21,582	
	Water consumption (m ³)	7,571	
	Chemicals handled (t)	0	
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	844
		5 gas (t-CO ₂)	/
		CO ₂ from distribution (t-CO ₂)	8
	Air	Particulate matter (t)	/
		NOx (t)	/
		SOx (t)	/
	Water consumption (m ³)	28,539	
	Water quality	BOD (t)	0.03
		COD (t)	0
		Nitrogen (t)	0.01
Phosphorus (t)		-	
Chemicals	Releases (t)	0	
	Transfers (t)	0	
Waste	Resources recycled/reused	External recycling (Receive money) (t)	0
		External recycling (Pay money) (t)	35.5
		In-house recycling (t)	0
	Waste produced (t)	0	

■ Water quality/First Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.7~8.7	5.7~8.7	7.2	7.2	7.2
BOD (mg/l)	300	300	54	54	54
SS (mg/l)	300	300	17	17	17

■ Water quality/Second Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.8~8.6	6.6	6.6	6.6
BOD (mg/l)	25	25	0.5	0.5	0.5
COD (mg/l)	25	25	1	1	1
Zinc (mg/l)	5	5	0.02	0.02	0.02
Total nitrogen (mg/l)	120	120	7.2	7.2	7.2

Note ※NOx: Nitrogen oxides
SOx: Sulfur oxides

K value: An index established through local ordinances for limiting the volume of SOx emissions.
K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

★ The actual measurements shown refer to maximum values with respect to the control values for each particular installation.
※ Facilities below a specified size (excluded under legal and other regulations) are not included.

DENSO AIRS CORPORATION

■ Location : 89-8 Hoden, Nodera-cho, Anjo, Aichi
 ■ Main products : Pipes for air conditioner
 ■ No. employees : 605

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)	
Input	Energy use (GJ)	62,816	
	Water consumption (m ³)	45,850	
	Chemicals handled (t)	1.21	
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	2,703
		5 gas (t-CO ₂)	/
		CO ₂ from distribution (t-CO ₂)	283
	Air	Particulate matter (t)	0.03
		NOx (t)	0.02
		SOx (t)	0.07
	Water consumption (m ³)	40,180	
	Water quality	BOD (t)	0.09
		COD (t)	0.11
		Nitrogen (t)	0.22
Chemicals	Phosphorus (t)	0.02	
	Releases (t)	1.18	
Waste	Transfers (t)		0.04
			0.0
	Resources recycled/reused	External recycling (Receive money) (t)	56.8
		External recycling (Pay money) (t)	138.7
In-house recycling (t)	0.0		
Waste produced (t)	0.0		

Air/Takahama Plant

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.3	0.3	0.003
	NOx (ppm)	150	150	87
	SOx (-) [k value]	1.75	1.75	0.01

Water quality/Toyohashi Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	/	5.8~8.6	7.1	7.1	7.1
BOD (mg/l)	/	25	1.6	1.6	1.6
COD (mg/l)	/	20	0.5	0.5	0.5
SS (mg/l)	/	30	2	2	2
Oil (mg/l)	/	2	2	2	2
Zinc (mg/l)	/	5	0.04	0.04	0.04
Fluorine (mg/l)	/	10	1.2	1.2	1.2
Total nitrogen (mg/l)	/	40	0.5	0.5	0.5
Total phosphorus (mg/l)	/	3	0.01	0.01	0.01

Water quality/Toyokawa Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	/	5.8~8.6	7.6	7.6	7.6
BOD (mg/l)	/	25	0.5	0.5	0.5
COD (mg/l)	/	20	2.7	2.7	2.7
SS (mg/l)	/	30	1	1	1
Oil (mg/l)	/	2	1	1	1
Zinc (mg/l)	/	5	0.01	0.01	0.01
Fluorine (mg/l)	/	10	0.4	0.4	0.4
Total nitrogen (mg/l)	/	40	1.8	1.8	1.8
Total phosphorus (mg/l)	/	3	0.11	0.11	0.11

Water quality/Takahama Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.8~8.6	7.6	7	7.2
BOD (mg/l)	10	10	6.6	0.8	2.6
COD (mg/l)	10	10	7.1	1.6	3
SS (mg/l)	10	10	1.5	1	1.1
Oil (mg/l)	2	2	1	1	1
Zinc (mg/l)	1	1	0.07	0.01	0.03
Fluorine (mg/l)	5	5	4.7	1	3.3
Total nitrogen (mg/l)	30	30	18	2.5	6.7
Total phosphorus (mg/l)	3	3	0.66	0.01	0
Dichloromethane(mg/L)	0.2	0.2	0.02	0	0.01

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Toluene	1,211	1,176	0	0	35	0	0	0	0

(in kg)

NIHON PAKKIN CO.,LTD.

■ Location : 1550 Kawabukuro, Ryuyo-cho, Iwata-gun, Aichi
 ■ Main products : Radiator caps, Precision press parts
 ■ No. employees : 199

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)	
Input	Energy use (GJ)	43,239	
	Water consumption (m ³)	5,766	
	Chemicals handled (t)	0	
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	1,742
		5 gas (t-CO ₂)	/
		CO ₂ from distribution (t-CO ₂)	652
	Air	Particulate matter (t)	/
		NOx (t)	/
		SOx (t)	/
	Water consumption (m ³)	201	
	Water quality	BOD (t)	/
		COD (t)	/
		Nitrogen (t)	/
Chemicals	Phosphorus (t)	/	
	Releases (t)	0	
Waste	Transfers (t)		0
			0
	Resources recycled/reused	External recycling (Receive money) (t)	2,824.7
		External recycling (Pay money) (t)	44.8
In-house recycling (t)	0		
Waste produced (t)	0		

Water quality/Hamamatsu Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
Zinc (mg/l)	5	5	0.4	0	0.03
Chrome (mg/l)	2	2	0.09	0	0.01

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

★The actual measurements shown refer to maximum values with respect to the control values for each particular installation. ※Facilities below a specified size (excluded under legal and other regulations) are not included.

TECHMA CORPORATION

Location : 3-1 Himegaoka, Kani, Gifu
 Main products : Wire harness, Electronic parts, Meters
 No. employees : 1,031

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)
Input	Energy use (GJ)	53,097
	Water consumption (m ³)	-
	Chemicals handled (t)	2.72
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	2,303
	5 gas (t-CO ₂ e)	-
	CO ₂ from distribution (t-CO ₂)	-
	Particulate matter (t)	-
Air	NOx (t)	-
	SOx (t)	-
	Water consumption (m ³)	1,190
Output	BOD (t)	0.00
	COD (t)	0.00
	Nitrogen (t)	-
	Phosphorus (t)	-
Chemicals	Releases (t)	0
	Transfers (t)	0
Waste	Resources recycled/reused	53.5
	External recycling (Receive money) (t)	101.9
	External recycling (Pay money) (t)	0.0
	In-house recycling (t)	0.0
Waste produced (t)	1.4	

Air

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.3	0.3	0.002
	NOx (ppm)	180	180	108
	SOx (-) [k value]	11.5	11.5	10.18
Gas turbine	Particulate matter (g/Nm ³)	0.1	0.1	0.024
	NOx (ppm)	950	950	855
	SOx (-) [k value]	11.5	11.5	8.62

Water quality

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.8~8.6	7.8	7.3	7.6
BOD (mg/l)	15	15	2.4	0.5	1.2
COD (mg/l)	30	30	5.2	2.4	3.7
SS (mg/l)	30	30	3.2	0.6	1.9

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Lead and its compounds	2,724	0	0	0	0	1,647	0	0	1,077

DENSO KIKO CO., LTD.

Location : 5-1-5 Shinden-cho, Takahama, Aichi
 Main products : Heaters Parts for air conditioner, Prototypes
 No. employees : 207

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)
Input	Energy use (GJ)	67,523
	Water consumption (m ³)	27,156
	Chemicals handled (t)	0
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	2,262
	5 gas (t-CO ₂ e)	/
	CO ₂ from distribution (t-CO ₂)	60.5
	Particulate matter (t)	0.10
Air	NOx (t)	1.73
	SOx (t)	0.88
	Water consumption (m ³)	19,300
Output	BOD (t)	0.17
	COD (t)	0.19
	Nitrogen (t)	0.55
	Phosphorus (t)	0.03
Chemicals	Releases (t)	0
	Transfers (t)	0
Waste	Resources recycled/reused	983.0
	External recycling (Receive money) (t)	58.6
	External recycling (Pay money) (t)	0
	In-house recycling (t)	0
Waste produced (t)	3.1	

Water quality/First Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.0~8.0	7.6	7.2	7.4
BOD (mg/l)	15	15	4.1	1.2	2.65
COD (mg/l)	25	25	8.3	2.7	5.5
SS (mg/l)	25	25	2	1	1.5
Oil (mg/l)	2	2	1	0	0.5
Zinc (mg/l)	2	2	0.05	0.02	0.04
Soluble iron (mg/l)	2	2	0.1	0	0.1
Colon bacillus (#/ml)	3,000	3,000	30	0	15
Total nitrogen (mg/l)	20	20	13	1.6	7.8
Total phosphorus (mg/l)	1	1	1	0.25	0.63

Water quality/Second Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	6.0~8.0	6.0~8.0	7.6	6.7	7.2
BOD (mg/l)	15	15	14	3.7	8.9
COD (mg/l)	25	20	7.6	3	5.3
SS (mg/l)	25	15	2	1	1.5
Oil (mg/l)	2	2	1	0	0.5
Total nitrogen (mg/l)	60	60	30	20	25
Total phosphorus (mg/l)	8	8	2.7	0.56	1.63

Note ※NOx: Nitrogen oxides SOx: Sulfur oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

*The actual measurements shown refer to maximum values with respect to the control values for each particular installation. ※Facilities below a specified size (excluded under legal and other regulations) are not included.

SANKYO RADIATOR CO., LTD.

Location : 6-3-28 Owada-cho, Hachioji, Tokyo
 Main products : Radiators
 No. employees : 279

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)		
Input	Energy use (GJ)	179,741		
	Water consumption (m ³)	135,095		
	Chemicals handled (t)	86.88		
Output	Greenhouse gases	CO ₂ from production activities (t-CO ₂)	7,506	
		5 gas (t-CO ₂)	/	
		CO ₂ from distribution (t-CO ₂)	136	
	Air	Particulate matter (t)	0	
		NOx (t)	0	
		SOx (t)	0	
	Water consumption (m ³)	145,800		
	Water quality	BOD (t)	0.38	
		COD (t)	0.47	
		Nitrogen (t)	0.39	
		Phosphorus (t)	0.01	
	Chemicals	Releases (t)	3.20	
		Transfers (t)	0.01	
	Waste	Resources recycled/reused	External recycling (Receive money) (t)	0
			External recycling (Pay money) (t)	231.9
Waste produced (t)		In-house recycling (t)	0	
			0	

Air/Hamura Plant

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	NOx (ppm)	120	120	49

Air/Hachioji Plant

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.05	0.05	0.014
	NOx (ppm)	120	120	80

Water quality/Hamura Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.0~8.0	7.5	6.7	7.1
BOD (mg/l)	300	20	12	1.2	4.1
COD (mg/l)	300	15	12	0.5	4.5
SS (mg/l)	300	40	3.3	0	0.6
Zinc (mg/l)	5	5	1.8	0.2	0.8
Copper (mg/l)	3	1	0.02	0.01	0.02

Water quality/Hachioji Plant

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	6.0~8.0	7.8	6.8	7.3
BOD (mg/l)	20	20	3.1	1.2	2
COD (mg/l)	15	15	4.8	1.2	3
SS (mg/l)	40	40	8	2	4
Zinc (mg/l)	5	3	0.8	0.1	0.2
Copper (mg/l)	1	1	0.3	0.1	0.2
Lead (mg/l)	0.1	0.1	0.07	0.02	0.04
Total nitrogen (mg/l)	15	15	5.4	1.9	3.8
Total phosphorus (mg/l)	0.8	0.8	0.2	0	0.1

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Toluene	1,227	1,227	0	0	0	0	0	0	0
Xylenes	1,967	1,967	0	0	0	0	0	0	0
Lead and its compounds	74,624	0	4	0	0	11,188	0	0	63,428
Zinc compound (water-soluble)	9,065	0	4	0	0	9,057	0	0	0

JECO CO., LTD.

Location : 1-4-1 Fujimi-cho, Gyoda, Saitama
 Main products : Clock, Automotive application products
 No. employees : 423

0: Zero ND: Not detected (below detection limits) -: Unknown /: Not applicable

Comprehensive Environmental Facts

Category		Amount (measured level)	
Input	Energy use (GJ)	96,002	
	Water consumption (m ³)	72,440	
	Chemicals handled (t)	3.8	
Greenhouse gases	CO ₂ from production activities (t-CO ₂)	4,253	
	5 gas (t-CO ₂)	/	
	CO ₂ from distribution (t-CO ₂)	/	
	Air	Particulate matter (t)	0.05
		NOx (t)	0.99
		SOx (t)	2.00
Water consumption (m ³)	41,575		
Water quality	BOD (t)	0.05	
	COD (t)	0.28	
	Nitrogen (t)	0.37	
	Phosphorus (t)	0.04	
Chemicals	Releases (t)	0	
	Transfers (t)	0	
Waste	Resources recycled/reused	External recycling (Receive money) (t)	142.0
		External recycling (Pay money) (t)	189.1
	Waste produced (t)	In-house recycling (t)	0.0
			0.0

Air

Facility type	Index	Legal limit	In-house standard	Measured level*
Boiler	Particulate matter (g/Nm ³)	0.1	0.3	0.005

Water quality

Index	Legal limit	In-house standard	Measured level		
			Max	Min	Ave
pH	5.8~8.6	5.8~8.6	7.6	6.6	7.2
BOD (mg/l)	25	25	2.4	0.6	1.28
COD (mg/l)	160	160	30	1.5	7.4

PRTR

Substance	Amount handled	Amount emitted			Amount transported Waste	Amount recycled	Amount disposed of	Amount consumed	Amount of products
		Amount emitted into air	Amount emitted into water	Amount emitted into ground					
Lead compounds	3,773	0	0	0	0	75	0	0	3,698

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions.
 SOx: Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx.

★The actual measurements shown refer to maximum values with respect to the control values for each particular installation.
 ※Facilities below a specified size (excluded under legal and other regulations) are not included.