

Fact Book

AFCO ASSOCIATED FUEL PUMP SYSTEMS CORPORATION

Location: 1100 Scott Bridge Road P.O.Box 1326 Anderson SC 29622, U.S.A.
 Main products: Fuel pumps
 No. employees: 392

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

Environmental total data

		Category	Actual Measurement
Input	Energy consumption(GJ)		36452
	Water consumption(m ³)		742
	The input volume of hazardous material (t)		164
	Greenhouse gas emissions CO ₂ (t-CO ₂)		1954
Output	Atmosphere	P.M. (t)	0
		NOx (t)	0
		SOx (t)	0
	Drainage volume (m ³)		1290
	Water	BOD (t)	< 1.0
		COD (t)	< 1.0
		Nitrogen (t)	0
		Phosphorous (t)	0
	The output volume of hazardous material (t)		7
	Emission	Amount of recyclable resources	External recycling(Receive money) (t)
External recycling (Pay money) (t)			0
In-house recycling (t)		0	
Waste emissions (t)		0	

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.11	0.11	0.01	0.01	< 0.10
Cyanide (mg/l)	1.2	1.2	0.01	0.01	< 0.1
Lead (mg/l)	0.69	0.69	0.05	0.05	< 0.050
BOD(mg/l)	250	250	119	70	23
COD(mg/l)	500	500	200	100	< 100
SS(mg/l)	250	250	16.2	6.6	8.67
Oil content (mg/l)	100	100	9.05	1.22	1.22
Copper (mg/l)	3.38	3.38	0.18	0.05	0.05
Zinc (mg/l)	2.61	2.61	0.07	0.01	< 0.10
Chromium (mg/l)	2.77	2.77	0.1	0.1	< 1.00
Nickel (mg/l)	3.98	3.98	0.05	0.05	< 0.050
Silver (mg/l)	0.43	0.43	0.03	0.03	< 0.030
TTO (total toxic organics)(mg/l)	2.1	2.1	0	0	-
Ph	6.0-9.0	7.8-8.2	8.1	7.9	8.1

TRI

(Unit:t/year)

Material name	Usage volume	Inside office									Outside office						Other transfer to other than office.		
		Emission			Amount of wastes			Emission	Amount of wastes										
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle		Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Sudden generation			
Copper(Cu)	157	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0
Nitric Acid(HNO3)	6.67	0	0	0	0	0	0	0	6.67	0	0	0	0	0	0	0	0	0	0

DMAT&DMTN DENSO MANUFACTURING ATHENS TENNESSEE, INC. DENSO MANUFACTURING TENNESSEE, INC.

Location: 1720 Robert C. Jackson DR. Maryville Tennessee 37801 U.S.A.
 Main products: Automotive electrical components
 No. employees: DMAT/880 DMTN/2,225

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

Environmental total data

		Category	Actual Measurement
Input	Energy consumption(GJ)		1957590
	Water consumption(m ³)		266085.9
	The input volume of hazardous material (t)		45.88
	Greenhouse gas emissions CO ₂ (t-CO ₂)		134799.1
Output	Atmosphere	P.M. (t)	-
		NOx (t)	-
		SOx (t)	-
	Drainage volume (m ³)		532171.8
	Water	BOD (t)	/
		COD (t)	/
		Nitrogen (t)	/
		Phosphorous (t)	/
	The output volume of hazardous material (t)		42.88
	Emission	Amount of recyclable resources	External recycling(Receive money) (t)
External recycling (Pay money) (t)			4387
In-house recycling (t)		-	
Waste emissions (t)		800	

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.01	0.01	<0.005	ND	<0.005
Cyanide (mg/l)	0.16	0.16	<0.005	ND	<0.005
Lead (mg/l)	0.09	0.09	0.0052	ND	<0.005
BOD (mg/l)	250	250	240	51	121.25
SS (mg/l)	250	250	200	37	124.25
Oil content (mg/l)	100	100	41	3	14
Phenol (mg/l)	3.61	3.61	0.15	0.052	0.1
Copper (mg/l)	0.72	0.72	0.14	0.075	0.10625
Zinc (mg/l)	1.8	1.8	0.74	0.35	0.4725
Chromium (mg/l)	1.5	1.5	0.027	0.012	0.013
Nitrogen (mg/l)	40	40	34	4	23
Nickel (mg/l)	1.01	1.01	0.032	ND	0.01925

DMTN

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.11	0.11	<0.005	<0.005	<0.005
Cyanide (mg/l)	1.2	1.2	<0.005	<0.005	<0.005
Lead (mg/l)	0.69	0.69	0.0051	ND	<0.005
Phenol (mg/l)	10.035	10.035	<0.040	<0.040	<0.040
Copper (mg/l)	3.38	3.38	0.11	<0.010	0.0401
Zinc (mg/l)	2.61	2.61	1.1	0.19	0.3
Chromium (mg/l)	2.77	2.77	0.017	<0.010	0.010
Nickel (mg/l)	2.69	2.69	0.3	0.05	0.1

TRI

(Unit:t/year)

Material name	Usage volume	Inside office									Outside office						Other transfer to other than office.	
		Emission			Amount of wastes			Emission	Amount of wastes									
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle		Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Sudden generation		
Toluene	31.30	29.30	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Xylene	14.58	13.58	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	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.

TBDN TBDN TENNESSEE COMPANY

Location: 1410 Highway 70 Bypass, Jackson, Tennessee 38301 U.S.A.
 Main products: Air filters and oil filters
 No. employees: 559

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

■ Environmental total data

Category		Actual Measurement	
Input	Enegy consumption(GJ)	/	
	Water consumption(m³)	/	
	The input volume of harzardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	4478	
	Atmosphere	P.M. (t)	/
		NOx (t)	/
		SOx (t)	/
	Water	Drainage volume (m³)	/
		BOD (t)	/
		COD (t)	/
		Nitrogen (t)	/
		Phosphorous (t)	/
	The output volume of hazardous material (t)	/	
	Emission	Amount of recyclable resources	External recycling/Receive money (t) / External recycling (Pay money) (t) / In-house recycling (t) /
		Waste emissions (t)	800

DMMI DENSO MANUFACTURING MICHIGAN, INC.

Location: One Denso Road, Battle Creek, Michigan 49015-1083 U.S.A.
 Main products: Air conditioners and radiators
 No. employees: 2,575

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

■ Environmental total data

Category		Actual Measurement	
Input	Enegy consumption(GJ)	1063070	
	Water consumption(m³)	216328	
	The input volume of harzardous material (t)	83	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	125964	
	Atmosphere	P.M. (t)	15.18
		NOx (t)	0
		SOx (t)	-
	Water	Drainage volume (m³)	59392
		BOD (t)	-
		COD (t)	-
		Nitrogen (t)	-
		Phosphorous (t)	0.37
	The output volume of hazardous material (t)	27	
	Emission	Amount of recyclable resources	External recycling/Receive money (t) / External recycling (Pay money) (t) / In-house recycling (t) /
		Waste emissions (t)	806.5

■ Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement * (Maximum)
Boiler	P.M. (lb/106scf)	7.6	7.6	7.6
	NOx (lb/106scf)	2.2	2.2	2.2
	SOx (lb/106scf)	0.6	0.6	0.6
Thermal grease remover	P.M. (lb/106scf)	7.6	7.6	7.6
	NOx (lb/106scf)	2.2	2.2	2.2
SOx (lb/106scf)	0.6	0.6	0.6	
	Oven	P.M. (lb/106scf)	7.6	7.6
NOx (lb/106scf)		2.2	2.2	2.2
SOx (lb/106scf)		0.6	0.6	0.6
Incinerator	P.M. (lb/106scf)	7.6	7.6	7.6
	NOx (lb/106scf)	2.2	2.2	2.2
	SOx (lb/106scf)	0.6	0.6	0.6

■ Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.1	0.1	-	ND	-
Cyanide (mg/l)	0.5	0.5	-	ND	-
Lead (mg/l)	0.2	0.2	-	ND	-
Hexavalent chromium (mg/l)	0.5	0.5	0.07	ND	0.04
BOD (mg/l)	-	-	-	8	-
COD (mg/l)	-	-	-	45	-
SS (mg/l)	-	-	-	7	-
Oil content (mg/l)	100	100	-	7	-
Phenol (mg/l)	-	-	-	ND	-
Copper (mg/l)	1	1	-	ND	-
Zinc (mg/l)	1.36	1.36	0.31	ND	0.04
Chromium (mg/l)	1.5	1.5	0.83	ND	0.09
Fluorine (mg/l)	-	-	-	ND	-
Phosphorous (mg/l)	-	-	-	0.71	-
Nickel (mg/l)	0.75	0.75	-	ND	-

■ TRI

Material name	Usage volume	Inside office										Outside office						Other transfer to other than office.		
		Emission					Amount of wastes					Emission		Amount of wastes						
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Subden generation					
Toluene	0.3	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xylene	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethylene Glycol	5	0	0	0	0	0	0	0	0	0	0	0	3.5	1.5	0	0	0	0	0	0
Manganese	29.3	0	0	0	0	0	0	0	0	0	0	0.3	29	0	0	0	0	0	0	0
Copper Compounds	27	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0
Hydrofluoric Acid	16.6	1.3	0	0	0	0	0	0	15.3	0	0	0	0	0	0	0	0	0	0	0
Chromium Compounds	4.7	0	0	0	0	0	0	0	0	0	0	4.7	0	0	0	0	0	0	0	0

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

Fact Book

DWAM DENSO WIRELESS SYSTEMS AMERICA, INC.

■ Location: 3250 Business Park Drive Vista, Ca. 92081 U.S.A.
 ■ Main products: Automotive electronic products
 ■ No. employees: 105

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

■ Environmental total data

Category		Actual Measurement
Input	Energy consumption(GJ)	30
	Water consumption(m ³)	20576
	The input volume of hazardous material (t)	0
Greenhouse gas emissions CO ₂ (t-CO ₂)		2040.5
Atmosphere	P.M. (t)	-
	NOx (t)	-
	SOx (t)	-
Drainage volume (m ³)		2967
Water	BOD (t)	-
	COD (t)	-
	Nitrogen (t)	-
	Phosphorous (t)	-
The output volume of hazardous material (t)		0
Emission	Amount of recyclable resources	
	External recycling(Receive money) (t)	86.8
	External recycling (Pay money) (t)	/
	In-house recycling (t)	/
Waste emissions (t)		30.47

■ TRI

(Unit:t/year)

Material name	Usage volume	Inside office									Outside office						Other transfer to other than office.	
		Emission			Amount of wastes			Emission	Amount of wastes									
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle		Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Sudden generation		
Toluene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xylene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AIMS AMERICAN INDUSTRIAL MANUFACTURING SERVICES, INC.

■ Location: 41673 Corning Place Murrieta, California 92562 U.S.A.
 ■ Main products: Remanufacture of electrical components
 ■ No. employees: 115

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

■ Environmental total data

Category		Actual Measurement
Input	Energy consumption(GJ)	12363
	Water consumption(m ³)	8855
	The input volume of hazardous material (t)	0
Greenhouse gas emissions CO ₂ (t-CO ₂)		61.5
Atmosphere	P.M. (t)	/
	NOx (t)	/
	SOx (t)	/
Drainage volume (m ³)		/
Water	BOD (t)	/
	COD (t)	/
	Nitrogen (t)	/
	Phosphorous (t)	/
The output volume of hazardous material (t)		0
Emission	Amount of recyclable resources	
	External recycling(Receive money) (t)	497.3
	External recycling (Pay money) (t)	14.5
	In-house recycling (t)	150
Waste emissions (t)		0

■ Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	1	1	ND	ND	ND
Lead (mg/l)	5	5	ND	ND	ND
Hexavalent chromium (mg/l)	5	5	ND	ND	ND
Copper (mg/l)	25	25	ND	ND	ND
Zinc (mg/l)	250	250	ND	ND	ND
Chromium (mg/l)	5	5	ND	ND	ND
Nickel (mg/l)	20	20	ND	ND	ND

■ TRI

(Unit:t/year)

Material name	Usage volume	Inside office									Outside office						Other transfer to other than office.	
		Emission			Amount of wastes			Emission	Amount of wastes									
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle		Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Sudden generation		
Toluene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xylene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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.

DMCN DENSO MANUFACTURING CANADA, INC.

Location: 195 Brunel Road, Mississauga, Ontario, Canada, L4Z 1X3
 Main products: Air conditioners
 No. employees: 284

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

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	60955	
	Water consumption(m ³)	9512	
	The input volume of hazardous material (t)	0	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	1835	
	Atmosphere	P.M. (t)	0.03
		NO _x (t)	0.4
		SO _x (t)	0.004
	Drainage volume (m ³)	9512	
	Water	BOD (t)	1.97
		COD (t)	-
		Nitrogen (t)	0.8
		Phosphorous (t)	0.1
	The output volume of hazardous material (t)	0	
Emission	Amount of External recycling/Receive money (t)	143	
	External recycling (Pay money) (t)	186	
	In-house recycling (t)	0	
	Waste emissions (t)	69.91	

NPRI

(Unit:t/year)

Material name	Usage volume	Inside office						Outside office						Other transfer to other than office.				
		Emission			Amount of wastes			Emission			Amount of wastes							
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment		Public treatment	Sudden generation		
Toluene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Xylene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DNMX DENSO MEXICO S.A. DE C.V.

Location: Boulevard Parque Industrial Monterrey |502, Parque Industrial Monterrey,Apodaca, N.L. CP66600 Mexico
 Main products: Instrument clusters and valves
 No. employees: 2,966

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

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	260472	
	Water consumption(m ³)	63557	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	19579.5	
	Atmosphere	P.M. (t)	-
		NO _x (t)	-
		SO _x (t)	-
	Drainage volume (m ³)	15529	
	Water	BOD (t)	0.00016
		COD (t)	0.00053
		Nitrogen (t)	0.00014
		Phosphorous (t)	0.00039
	The output volume of hazardous material (t)	/	
Emission	Amount of External recycling/Receive money (t)	822.98	
	External recycling (Pay money) (t)	109.76	
	In-house recycling (t)	0	
	Waste emissions (t)	553	

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.75	0.75	< 0.020	< 0.020	< 0.020
Cyanide (mg/l)	1.5	1.5	< 0.005	< 0.005	< 0.005
Lead (mg/l)	1.5	1.5	< 0.100	< 0.100	< 0.100
Hexavalent chromium (mg/l)	0.75	0.75	< 0.010	< 0.010	< 0.010
BOD (mg/l)	400	400	10	10	10
COD (mg/l)	750	750	34	34	34
SS (mg/l)	250	250	64.8	64.8	64.8
Oil content (mg/l)	75	75	7.5	7.5	7.5
Copper (mg/l)	15	15	< 0.050	< 0.050	< 0.050
Zinc (mg/l)	9	9	0.25	0.25	0.25
Nitrogen (mg/l)	80	80	99	9.3	54.2
Phosphorous (mg/l)	22	22	2.5	2.5	2.5
Nickel (mg/l)	6	6	0.23	0.23	0.23
Arsenic (mg/l)	0.75	0.75	< 0.002	< 0.002	< 0.002
Mercury (mg/l)	0.015	0.015	< 0.001	< 0.001	< 0.001
pH	5.5 - 10.0	5.5 - 10.0	7.65	7.65	7.65

**Nitrogen: Violation of public sewerage system effluent standard (No influence to a river etc.)
 The corrective action have been taken already.

DNBR DENSO DO BRASIL LTDA.

Location: Rua Joao Chede No.891, C.I.C. Curitiba, PR, Brasil CEP:81.170-220
 Main products: Air conditioners, Compressors
 No. employees: 1,393

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

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	253679	
	Water consumption(m ³)	54071	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	43.6	
	Atmosphere	P.M. (t)	/
		NO _x (t)	/
		SO _x (t)	/
	Drainage volume (m ³)	46800	
	Water	BOD (t)	0.54
		COD (t)	2.69
		Nitrogen (t)	0.01
		Phosphorous (t)	0.01
	The output volume of hazardous material (t)	/	
Emission	Amount of External recycling/Receive money (t)	1350	
	External recycling (Pay money) (t)	156.4	
	In-house recycling (t)	14.7	
	Waste emissions (t)	45	

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Ph	5.0 - 9.0	5.0 - 9.0	7.4	7	7.21
BOD (mg/l)	50	50	24	5	15
COD (mg/l)	125	125	71	51	61
SS (mg/l)	1	1	< 1	< 1	< 1
Oil content(mg/l)	20	20	8	5	6.5
Phenol(mg/l)	0.5	0.5	0.004	0.004	0.004
Copper(mg/l)	1	1	0.41	0.21	0.31
Zinc(mg/l)	5	5	0.2	0.1	0.15
Soluble iron(mg/l)	15	15	0.62	0.26	0.44
Chromium(mg/l)	0.5	0.5	0.03	0.01	0.02
Fluorine(mg/l)	10	10	2.1	1.2	1.7
Nitrogen(mg/l)	5	5	0.35	0.15	0.25
Phosphorous(mg/l)	0.7	0.7	0.39	0.23	0.31
Cyanide(mg/l)	0.2	0.2	0.02	0.02	0.02
Hexavalent chromium(mg/l)	0.5	0.5	0.03	0.01	0.02

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

*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.

Fact Book

DNAZ DENSO INDUSTRIAL DA AMAZONIA LTDA.

Location: Avenida Buriti 3800, Distrito Industrial, Manaus, Amazonas
 Main products: Bus air conditioners and Ignition components for motorbikes
 No. employees: 99

0: Zero ND: Not Detected (below detection limit) -: Not grasped /: N.A. (Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Enegy consumption(GJ)	23758	
	Water consumption(m ³)	12352	
	The input volume of hazardous material (t)	NA	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	147	
	Atmosphere	P.M. (t)	ND
		NOx (t)	ND
		SOx (t)	ND
	Drainage volume (m ³)	-	
	Water	BOD (t)	10
		COD (t)	18
		Nitrogen (t)	ND
		Phosphorous (t)	-
	The output volume of hazardous material (t)	NA	
Emission	Amount of recyclable resources	714.64	
	External recycling (Receive money) (t)	574.67	
	External recycling (Pay money) (t)	ND	
	In-house recycling (t)	20.4	
Waste emissions (t)			

Air Pollution data

Substance	Legal Limit	Legal Limit	In-house Standard	Actual Measurement (Maximum)
REFLOW	P.M. (g/m ³)	240	240	48
WAVE SOLDER	P.M. (g/m ³)	240	240	23

DMUK DENSO MANUFACTURING UK LTD.

Location: Queensway Campus, Hortonwood, Telford Shropshire TF1 7FS, The United Kingdom
 Main products: Heaters and air conditioners
 No. employees: 1,605

0: Zero ND: Not Detected (below detection limit) -: Not grasped /: N.A. (Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Enegy consumption(GJ)	0	
	Water consumption(m ³)	111465	
	The input volume of hazardous material (t)	0	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	19338	
	Atmosphere	P.M. (t)	-
		NOx (t)	-
		SOx (t)	-
	Drainage volume (m ³)	49920	
	Water	BOD (t)	-
		COD (t)	1.67
		Nitrogen (t)	-
		Phosphorous (t)	-
	The output volume of hazardous material (t)	0	
Emission	Amount of recyclable resources	1812	
	External recycling (Receive money) (t)	11.24	
	External recycling (Pay money) (t)	-	
	In-house recycling (t)	-	
Waste emissions (t)	401		

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Ph	10	9	8.4	7.6	8
COD(mg/l)	400	360	90	3	29.5
SS(mg/l)	400	360	29	0	6.80
Copper(mg/l)	1	0.9	0.09	0	0.02
Zinc(mg/l)	3	2.7	0.25	0.00	0.04
Soluble iron(mg/l)	10	9	0.20	0	0.05
Chromium(mg/l)	1.7	1.5	0.37	0	0.03
Fluorine(mg/l)	6	5.4	2.22	0.15	0.56

TRI

(Unit: t/year)

Material name	Usage volume	Inside office									Outside office					Other transfer to other than office.		
		Emission			Amount of wastes			Emission	Amount of wastes									
		Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment		Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Sudden generation				
Toluene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Xylene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DNMN DENSO MARSTON LTD.

Location: Marston House, Olley Road, Shipley, West Yorkshire, The United Kingdom BD17 7JR
 Main products: Radiators, oil coolers, and inter-coolers
 No. employees: 1,153

0: Zero ND: Not Detected (below detection limit) -: Not grasped /: N.A. (Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Enegy consumption(GJ)	2436260	
	Water consumption(m ³)	34571	
	The input volume of hazardous material (t)	1	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	25199	
	Atmosphere	P.M. (t)	2.9
		NOx (t)	/
		SOx (t)	/
	Drainage volume (m ³)	30473	
	Water	BOD (t)	/
		COD (t)	1.12
		Nitrogen (t)	/
		Phosphorous (t)	/
	The output volume of hazardous material (t)	1	
Emission	Amount of recyclable resources	1542	
	External recycling (Receive money) (t)	/	
	External recycling (Pay money) (t)	/	
	In-house recycling (t)	/	
Waste emissions (t)	553		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Oven	P.M. (g/Nm ³)	10	10	8.82
Incinerator on thermal	P.M. (g/Nm ³)	50	50	7.57
Heat Degreaser	NOx (ppm)	100	100	13.6

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.01	0.01	0.0003	ND	ND
Lead (mg/l)	5	5	0.32	ND	0.04
COD (mg/l)	500	500	256	ND	70.0
SS (mg/l)	100	100	43	ND	3.5
Copper (mg/l)	5	5	1.1	ND	0.558
Zinc (mg/l)	10	10	10	ND	1.17
Chromium (mg/l)	0.1	0.1	0.1	ND	0.013
Nickel (mg/l)	0.1	0.1	0.08	ND	0.03

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.

DNTS DENSO THERMAL SYSTEMS S.p.A.

Location: Frazione Masio, 24 10046 Poirino TORINO, Italy
 Main products: Air conditioners, heaters, and radiators
 No. employees: 2,278

0: Zero ND: Not Detected (below detection limit) -: Not grasped /: N.A. (Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	410530	
	Water consumption(m ³)	375000	
	The input volume of hazardous material (t)	0	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	23896	
	Atmosphere	P.M. (t)	1.145
		NOx (t)	0.079
		SOx (t)	ND
	Drainage volume (m ³)	333000	
	Water	BOD (t)	18.89
		COD (t)	8.7
		Nitrogen (t)	0.029
		Phosphorous (t)	0.08415
	The output volume of hazardous material(Tons)	0	
Emission	Amount of recyclable resources	External recycling(Receive money) (t)	3653
		External recycling (Pay money) (t)	0
	Waste emissions(Tons)	In-house recycling (t)	0
			793.1

Air Pollution data Avellino

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Thermal Degreaser	P.M. and oil mist	10	9	0.78
	SOT	50	45	14.7
	CO	50	45	38
Cooling	P.M. and oil mist	5	4.5	0.73
	SOT	10	9	1.66
Fluxer dosing	P.M.	5	4.5	1.52
	HF	1	0.9	0.03
Drying oven	SOT	10	9	6.46
	P.M.	5	4.5	0.88
Braze heating	HF	1	0.9	0.02
	SOT	10	9	6.73
	P.M.	5	4.5	0.8
Braze process	HF	Absent	Absent	Absent
	SOT	10	9	7.53
	P.M.	10	9	1.74
Cooling in air	HF	1	0.9	0.03
	SOT	10	9	6.66
	P.M. and oil mist	5	4.5	0.43
Welding carousel	SOT	10	9	1.73
	P.M.	5	4.5	1.57
	HCl	1	0.9	0.31
Helium leak tester	HF	1	0.9	0.02
	CO	50	45	0.01
	P.M. and oil mist	5	4.5	0.8
	SOT	10	9	2.36

Air Pollution data Poirino

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Thermal grease remover	P.M. (g/Nm ³)	10	9	2
	NOx (ppm)	ND	ND	ND
	SOx (-)	ND	ND	ND
	SOT (total substances organic)	50	45	6.3
Melting furnace	P.M. (g/Nm ³)	10	9	1.7
	NOx (ppm)	ND	ND	ND
	SOx (-)	ND	ND	ND
	SOT (total substances organic)	50	45	3.36
moulding injection machine	P.M. (g/Nm ³)	10	9	0.64
	NOx (ppm)	ND	ND	ND
	SOx (-)	ND	ND	ND
	SOT (total substances organic)	50	45	3.74
braze welding machine	P.M. (g/Nm ³)	10	9	0.85
	NOx (ppm)	ND	ND	ND
	SOx (-)	ND	ND	ND
	SOT (total substances organic)	50	45	3.91

Water Pollution data Avellino

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
pH	5,5 - 9,5	5,5 - 9,5	8.9	7.8	8.58
Nitric (mg/l)	30	27	6.73	1.9	5.36
Nitrite (mg/l)	0.6	0.54	0.52	0.22	0.41
Ammonia (mg/l)	30	27	4	0.6	2.72
COD (mg/l)	500	450	188	15	154
Chlorides (mg/l)	1200	1080	680	330	592
Hexavalent chromium (mg/l)	0.2	0.18	0.11	0	0.07
Trivalent chromium (mg/l)	4	3.6	0.9	0.01	0.29
Soluble iron (mg/l)	4	3.6	1.3	0.11	0.54
Anionic surface-active agents(mg/l)	4	3.6	1.3	0.11	0.86
Fluoride (mg/l)	12	10.8	2.2	0.48	1.54
Phosphorous (mg/l)	10	9	2.3	0.06	0.99
Copper (mg/l)	0.4	0.36	0.18	0.01	0.07
Aluminum(mg/l)	2	1.8	0.3	0	0.05

Air Pollution data Poirino

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.02	0.018	0.01	0.01	0.01
Lead (mg/l)	0.2	0.18	0	0	0.05
Hexavalent chromium (mg/l)	0.2	0.18	0.01	0	0.01
BOD (mg/l)	40.0	36	20	20	20
COD (mg/l)	160.0	144	30	30	30
Oil content (mg/l)	5.0	4.5	1	0.5	0.5
Copper (mg/l)	0.1	0.09	0.02	0.02	0.02
Zinc (mg/l)	0.5	0.45	0.2	0.2	0.2
Soluble iron (mg/l)	2.0	1.8	0.1	0.1	0.1
Chromium (mg/l)	0.2	0.18	0.1	0.1	0.1
Fluorine (mg/l)	6.0	5.4	0.3	0.8	0.6
Nitrogen (mg/l)	20.0	18	0.06	0.06	0.06
Nickel (mg/l)	2.0	1.8	0.1	0.1	0.1

DMIT DENSO MANUFACTURING ITALIA S.p.A.

Location: Viale Marisa Bellisario, 75 San Salvo(Chieti), Italia
 Main products: Starters, alternators, and small motors
 No. employees: 1,645

0: Zero ND: Not Detected (below detection limit) -: Not grasped /: N.A. (Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	354824	
	Water consumption(m ³)	135.053	
	The input volume of hazardous material(t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	4.105	
	Atmosphere	P.M. (t)	/
		NOx (t)	/
		SOx (t)	3.6
	Drainage volume (m ³)	119.5	
	Water	BOD (t)	216
		COD (t)	482
		Nitrogen (t)	/
		Phosphorous (t)	/
	The output volume of hazardous material (t)	/	
Emission	Amount of recyclable resources	External recycling(Receive money) (t)	5.3
		External recycling (Pay money) (t)	0.9
	Waste emissions (t)	In-house recycling (t)	/
			806.5

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Boiler	P.M. (mg/Nm ³)	5	5	0.62
	NOx (mg/Nm ³)	350	350	93.9

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium (mg/l)	0.02	0.02	N.D.	N.D.	N.D.
Cyanide (mg/l)	1	1	N.D.	N.D.	N.D.
Lead (mg/l)	0.3	0.3	0.1	N.D.	0.0
Hexavalent chromium (mg/l)	0.2	0.2	N.D.	N.D.	N.D.
BOD (mg/l)	250	250	216	55	152
COD (mg/l)	500	500	482	133	346
SS (mg/l)	200	100	88	56	73
Oil content (mg/l)	10	10	1.3	0.14	0.8
Phenol (mg/l)	1	1	N.D.	N.D.	N.D.
Copper (mg/l)	0.4	0.4	0.2	0.042	0.1
Zinc (mg/l)	1	1	0.5	0.05	0.17325
Soluble iron (mg/l)	4	4	3.3	0.105	1.0
Chromium (mg/l)	4	4	N.D.	N.D.	N.D.
Fluorine (mg/l)	12	12	7.7	0	1.3
Nitrogen (mg/l) (as NH ₄)	30	30	28.6	18.7	24.2
Phosphorous (mg/l)	10	10	6.6	1.7	3.0
Nickel (mg/l)	4	4	N.D.	N.D.	N.D.

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.

Fact Book

DMHU DENSO MANUFACTURING HUNGARY LTD.

Location: Holland fasor 14, Szekesfehervar 8000, Hungary
 Main products: Diesel injection pumps
 No. employees: 2,638

0: Zero ND:Not Detected(below detection limit) -:Not grasped /: N.A.(Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	437943	
	Water consumption(m ³)	99000	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	0	
	Atmosphere	P.M. (t)	1.166
		NOx (t)	-
		SOx (t)	3.21
	Water	Drainage volume (m ³)	57000
		BOD (t)	-
		COD (t)	0.0044
		Nitrogen (t)	-
	Emission	Phosphorous (t)	0.000000998
		The output volume of hazardous material(Tons)	/
Amount of recyclable resources		External recycling(Receive money) (t)	770
		External recycling (Pay money) (t)	1345
		In-house recycling (t)	150
Waste emissions (t)	0		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Boiler	P.M. (mg/m ³)	150	150	39.5
	NOx (mg/m ³)	500	500	266.9
Melting furnace	P.M. (mg/m ³)	150	150	39.5
	NOx (mg/m ³)	350	350	266.9
Annealing furnace	P.M. (mg/m ³)	150	150	39.5
	NOx (mg/m ³)	350	350	266.9
Oven	P.M. (mg/m ³)	150	150	39.5
	NOx (mg/m ³)	350	350	266.9

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
COD(mg/l)	1200	1200	900	240	400
Oil content (mg/l)	50	50	41	27	38.1
Copper (mg/l)	2	2	0.05	0.05	0.05
Zinc (mg/l)	10	10	0.1	0.1	0.1
Soluble iron (mg/l)	20	20	8.5	5.6	7.30
Chromium (mg/l)	1	1	0.1	0.1	0.10

DNBA DENSO BARCELONA S.A.

Location: Calle Sakura No.1, Poligono Industrial Pla de Santa Anna, 08272, SANT FRUITOS DEL BAGES, (Barcelona) Spain
 Main products: Engine control components
 No. employees: 613

0: Zero ND:Not Detected(below detection limit) -:Not grasped /: N.A.(Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	99831	
	Water consumption(m ³)	12789	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	1479.63	
	Atmosphere	P.M. (t)	-
		NOx (t)	-
		SOx (t)	-
	Water	Drainage volume (m ³)	1784
		BOD (t)	0.02
		COD (t)	0.1
		Nitrogen (t)	0.02
	Emission	Phosphorous (t)	0.009
		The output volume of hazardous material (t)	/
Amount of recyclable resources		External recycling(Receive money) (t)	80.8
		External recycling (Pay money) (t)	428
		In-house recycling (t)	0
Waste emissions (t)	32.45		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Oxygen sensor	VOC (mg C/Nm ³)	150	150	6.1
	NOx (ppm)	300	300	-
	CO (ppm)	500	500	-
	P.M. (mg / Nm ³)	150	150	-

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Lead (mg/l)	0.2	0.2	<0.2	<0.2	<0.2
BOD (mg/l)	40	40	39	4	12.2
COD (mg/l)	150	150	148	32	62.7
SS(mg/l)	80	80	55	1	14.5
Oil content (mg/l)	20	20	10	<10	<10
Nitrogen (mg/l)	80	80	40	1.14	14.27
Phosphorous (mg/l)	20	20	11	4.01	8.775
Tin (mg/l)	10	10	<0.03	<0.03	<0.03
pH	6 - 9	6 - 9	7.8	6.05	7.1725
Chlorine (mg/l)	2000	2000	574	175	374.5
Tensioactive agents (mg/l)	3	3	0.1	<0.06	0.08

DNTW DENSO TAIWAN CORP.

Location: 525, Sec. 2 Mei Su Road Yang Mei Town Taoyuan Hsien, Taiwan, R.O.C.
 Main products: Automotive electrical components
 No. employees: 415

0: Zero ND:Not Detected(below detection limit) -:Not grasped /: N.A.(Not Applicable)

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	117586	
	Water consumption(m ³)	24287	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	6217	
	Atmosphere	P.M. (t)	0.00002
		NOx (t)	0
		SOx (t)	0
	Water	Drainage volume (m ³)	13100
		BOD (t)	0.26
		COD (t)	0.4
		Nitrogen (t)	0
	Emission	Phosphorous (t)	0
		The output volume of hazardous material (t)	/
Amount of recyclable resources		External recycling(Receive money) (t)	242.679
		External recycling (Pay money) (t)	114.631
		In-house recycling (t)	20.5
Waste emissions (t)	0		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Heat degreaser	P.M. (g/Nm ³)	0.5	0.5	0.02
Soldering equipment	Lead (g/Nm ³)	10	10	ND<0.08
Rinsing equipment	P.M. (g/Nm ³)	0.21	0.21	0.007
	Hydrogen Chloride(mg/Nm ³)	80	80	4.4

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Lead (mg/l)	1	0.8	0.4	ND	0.20
BOD(mg/l)	50	40	33	6	20
COD(mg/l)	100	50	47.00	13.00	30.75
SS(mg/l)	30	25	16.00	2.70	6.35
Oil content (mg/l)	10	9	4.00	ND	2.20
Copper (mg/l)	3	1	0.70	ND	0.32
Zinc (mg/l)	5	3	2.40	0.80	1.23

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.

CQD CHONGQING DENSO CO., LTD.

■ Location: No.55, Baihe R.D., Nanping Economic & Technic Development Zone, Chongqing, China
■ Main products: Magnetos, CDI amplifiers,
■ No. employees: 160

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

Environmental total data

Category		Actual Measurement		
Input	Enegey consumption(GJ)	14974		
	Water consumption(m ³)	24329		
	The input volume of harzardous material (t)	8		
	Greenhouse gas emissions CO ₂ (t-CO ₂)	1555		
Output	Atmosphere	P.M. (t)	/	
		NOx (t)	/	
		SOx (t)	/	
	Drainage	Drainage volume (m ³)	9000	
		BOD (t)	0.0972	
		COD (t)	0.668	
		Nitrogen (t)	-	
	Water	Phosphorous (t)	0.004	
		The output volume of hazardous material (t)	0.37	
		Emission	Amount of recyclable resources	104
			External recycling (Receive money) (t)	5.343
	External recycling (Pay money) (t)		0	
	Waste emissions (t)	3.2		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Drying furnace	P.M. (g/Nm ³)	5	/	-
	NOx (ppm)	0.15	/	-
	SOx (-)	0.5	/	0.09

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximun	Minimun	Average
Hexavalent chromium(mg/l)	0.5	0.5	0.01	0.01	0.01
BOD(mg/l)	30	30	10.8	10.8	10.8
COD(mg/l)	100	90	76.5	70.5	73.4
SS(mg/l)	70	70	15.0	11.0	13.0
Oil content(mg/l)	10	8	2.525	2.007	2.266

DNPE DENSO PS ELECTRONICS CORPORATION

■ Location: 853-11 Wae-dong Changwon City Kyungnam, Korea
■ Main products: Instrument clusters
■ No. employees: 531

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

Environmental total data

Category		Actual Measurement		
Input	Enegey consumption(GJ)	54843		
	Water consumption(m ³)	38653		
	The input volume of harzardous material (t)	2.2		
	Greenhouse gas emissions CO ₂ (t-CO ₂)	726		
Output	Atmosphere	P.M. (t)	/	
		NOx (t)	/	
		SOx (t)	/	
	Drainage	Drainage volume (m ³)	27916	
		BOD (t)	/	
		COD (t)	/	
		Nitrogen (t)	/	
	Water	Phosphorous (t)	/	
		The output volume of hazardous material (t)	2.144	
		Emission	Amount of recyclable resources	60.2
			External recycling (Receive money) (t)	44.4
	External recycling (Pay money) (t)		/	
	Waste emissions (t)	104.6		

TRI

(Unit : t/year)

Material name	Usage volume	Inside office							Outside office						Other transfer to other than office		
		Emission			Amount of wastes				Emission			Amount of wastes					
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment		Substn generation	
Pb	2.2	0.044	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1(Product transfer)	0

DNHA DENSO HARYANA PVT. LTD.

■ Location: The Capital Court, 3rd Floor, Left Wing, Olof Palme Marg, Munirka, New Delhi-110 067, India
■ Main products: Fuel pumps, injectors, engine ECUs,
■ No. employees: 453

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

Environmental total data

Category		Actual Measurement		
Input	Enegey consumption(GJ)	115981		
	Water consumption(m ³)	97781		
	The input volume of harzardous material (t)	/		
	Greenhouse gas emissions CO ₂ (t-CO ₂)	7108.79		
Output	Atmosphere	P.M. (t)	0.093	
		NOx (t)	NA	
		SOx (t)	NA	
	Drainage	Drainage volume (m ³)	11505	
		BOD (t)	0.028	
		COD (t)	0.134	
		Nitrogen (t)	ND	
	Water	Phosphorous (t)	ND	
		The output volume of hazardous material (t)	/	
		Emission	Amount of recyclable resources	314.37
			External recycling (Receive money) (t)	15.46
	External recycling (Pay money) (t)		6.93	
	Waste emissions (t)	-		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Boiler	P.M. (mg/Nm ³)	1200	1200	93
	NOx (mg/Nm ³)	120	120	25
	SOx (mg/Nm ³)	120	120	38.52

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximun	Minimun	Average
BOD(mg/l)	30	30	28	19	24.75
COD(mg/l)	250	250	134	50	119
SS(mg/l)	600	600	21	12	14.75
Oil content(mg/l)	10	10	3	2.1	2.35
PH	5.5-9.0	5.5-9.1	6.9	6.7	6.8

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.

Fact Book

DNIN DENSO INDIA LTD.

Location: III Floor The Capital Court, Olof Palme Marg, Munirka New Delhi-110 067, India
 Main products: Alternators, starters, electric fans,
 No. employees: 843

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

Environmental total data

Category		Actual Measurement		
Input	Energy consumption(GJ)	103808		
	Water consumption(m ³)	56552		
	The input volume of hazardous material (t)	/		
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	11586.19		
	Atmosphere	P.M. (t)	2.279	
		NOx (t)	0.34	
		SOx (t)	0.093	
	Water	Drainage volume (m ³)	28559	
		BOD (t)	0.768	
		COD (t)	5.439	
		Nitrogen (t)	0	
	Emission	Phosphorous (t)	0.008	
		The output volume of hazardous material (t)	/	
		Amount of recyclable resources	External recycling(Receive money)(t)	1197.686
			External recycling (Pay money)(t)	28.9
			In-house recycling (t)	7.22
Waste emissions (t)	0			

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Melting furnace	P.M. (mg/Nm ³)	150	150	18.2
	NOx (mg/Nm ³)	80	80	29.45
	SOx (mg/Nm ³)	80	80	9
590 KVA D.G. Set	P.M. (mg/Nm ³)	150	150	94.2
	NOx (mg/Nm ³)	80	80	56.2
	SOx (mg/Nm ³)	80	80	34.6
Degreasing & Phosphating	P.M. (mg/Nm ³)	150	150	31.2
	NOx (mg/Nm ³)	80	80	ND
	SOx (mg/Nm ³)	80	80	ND
Paint Booth	P.M. (mg/Nm ³)	150	150	37.2
	NOx (mg/Nm ³)	80	80	ND
	SOx (mg/Nm ³)	80	80	ND
EPOXY BAKING	P.M. (mg/Nm ³)	150	150	47.5
	NOx (mg/Nm ³)	80	80	ND
	SOx (mg/Nm ³)	80	80	ND

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
BOD(mg/l)	30	30	27	21.36	24.18
COD(mg/l)	250	250	173.5	84	128.75
SS(mg/l)	100	100	72	16	44.435
Oil content(mg/l)	10	10	6	0	4.5375
Copper(mg/l)	3	3	0.12	ND	0.06
Zinc(mg/l)	5	5	1.37	0.36	0.865
Phosphorous(mg/l)	5	5	1.19	0.54	0.865
Total Dissolved Solids (TDS)(mg/l)	2100	2100	1620	860	1218.1
pH	5.5_9	5.5_9	7.5	7	7.21

DNKI DENSO KIRLOSKAR INDUSTRIES PVT. LTD.

Location: 30th K.M. Stone, Tumkur Road-NH4 Vishveshwarapura, Nelamangala BANGALORE RURAL
 Main products: Radiators and air conditioners
 No. employees: 486

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

Environmental total data

Category		Actual Measurement		
Input	Energy consumption(GJ)	27663		
	Water consumption(m ³)	20388		
	The input volume of hazardous material (t)	/		
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	690		
	Atmosphere	P.M. (t)	0	
		NOx (t)	0	
		SOx (t)	0	
	Water	Drainage volume (m ³)	0	
		BOD (t)	0.04908	
		COD (t)	1.11254	
		Nitrogen (t)	0	
	Emission	Phosphorous (t)	0	
		The output volume of hazardous material (t)	/	
		Amount of recyclable resources	External recycling(Receive money)(t)	360
			External recycling (Pay money)(t)	33.5
			In-house recycling (t)	30
Waste emissions (t)	80.4			

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Degreasing Oven (Radiator)	P.M. (g/Nm ³)	150	150	13.17
Painting Booth	P.M. (g/Nm ³)	150	150	12.43

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Ph	5.5-9	5.5-9	7.38	7.28	7.32
BOD(mg/l)	20	20	7.5	7.0	7.2
SS(mg/l)	30	30	18.0	15.0	16.3

DNTH DENSO (THAILAND) CO., LTD.

Location: 369 Moo 3 Teparak Road, T. Teparak, A. Muang, Samutprakarn 10270 Thailand
 Main products: Electrical automotive components,
 No. employees: 2,121

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

Environmental total data

Category		Actual Measurement		
Input	Energy consumption(GJ)	0		
	Water consumption(m ³)	287161		
	The input volume of hazardous material (t)	/		
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	8298		
	Atmosphere	P.M. (t)	0.436	
		NOx (t)	/	
		SOx (t)	0.068	
	Water	Drainage volume (m ³)	147556	
		BOD (t)	25.28	
		COD (t)	5.16	
		Nitrogen (t)	/	
	Emission	Phosphorous (t)	/	
		The output volume of hazardous material (t)	/	
		Amount of recyclable resources	External recycling(Receive money)(t)	7315
			External recycling (Pay money)(t)	/
			In-house recycling (t)	/
Waste emissions (t)	552.2			

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.

AAA AUSTRALIAN AUTOMOTIVE AIR PTY. LTD.

Location: 453 Dorset Road, Croydon, Victoria, Australia
 Main products: Air conditioners, radiators
 No. employees: 591

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

Environmental total data

Category		Actual Measurement	
Input	Eney consumption(GJ)	157649	
	Water consumption(m ³)	34959	
	The input volume of harzardous material (t)	3.9	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	26995	
	Atmosphere	P.M. (t)	ND
		NOx (t)	0
		SOx (t)	6.8
	Drainage volume (m ³)	17382.9	
	Water	BOD (t)	/
		COD (t)	/
		Nitrogen (t)	/
		Phosphorous (t)	/
	The output volume of hazardous material (t)	3.9	
Emission	Amount of External recycling(Receive money) (t)	865.946	
	External recycling (Pay money) (t)	71.8	
	In-house recycling (t)	0	
	Waste emissions (t)	384	

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Heat degreaser	P.M. (g/Nm ³)	1148	1148	ND
	NOx (ppm)	350	350	67
Cond Heat degreaser	P.M. (g/Nm ³)	1148	1148	ND
	NOx (ppm)	350	350	46
ST/MS Evap Heat degreaser	P.M. (g/Nm ³)	1148	1148	ND
	NOx (ppm)	350	350	63
SP Evap Heat degreaser	P.M. (g/Nm ³)	1148	1148	ND
	NOx (ppm)	350	350	39

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximun	Minimun	Average
Cadmium(mg/l)	2	2	0.01	0.01	0.01
Lead(mg/l)	10	10	0.01	0.01	0.01
Oil content(mg/l)	200	200	89	5	21
Copper(mg/l)	10	10	0.01	0.01	0.01
Zinc(mg/l)	10	10	0.68	0.68	0.68
Soluble iron(mg/l)	30	30	3.8	0.6	1.4
Chromium(mg/l)	10	10	0.97	0.01	0.30
Fluorine(mg/l)	30	30	10.3	1.5	7.4
Tin(mg/l)	10	10	0.01	0.01	0.01
Nickel(mg/l)	10	10	0.01	0.01	0.01

TRI

(Unit : t/year)

Material name	Usage volume	Inside office									Outside office						Other transfer to other than office.
		Emission			Amount of wastes			Emission			Amount of wastes						
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Subden generation		
Toluene & Xylene	0.807	0	0.807	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other VOC	3.096	0	3.096	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DNIA P.T. DENSO INDONESIA CORP.

Location: JL.Gaya Motor,Sunter,Kel Sungai Bambu,Tanjung Priok,Jakarta Utara,
 Main products: Air conditioners, radiators
 No. employees: 2,014

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

Environmental total data

Category		Actual Measurement	
Input	Eney consumption(GJ)	0	
	Water consumption(m ³)	128076	
	The input volume of harzardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	5.11	
	Atmosphere	P.M. (t)	
		NOx (t)	
		SOx (t)	
	Drainage volume (m ³)	128075	
	Water	BOD (t)	16.838
		COD (t)	38.995
		Nitrogen (t)	0.386
		Phosphorous (t)	NA
	The output volume of hazardous material (t)	/	
Emission	Amount of External recycling(Receive money) (t)	1980.07	
	External recycling (Pay money) (t)	831.49	
	In-house recycling (t)	0	
	Waste emissions (t)	172.8	

Air Pollution data SUNTER

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Core Oven	NOx (mg/m ³)	1000	1000	88.20
	SOx (-)	800	800	15.72
Genset	NOx (mg/m ³)	1000	1000	/ *
	SOx (-)	800	800	/ *
Electro Plating	NOx (mg/m ³)	1000	1000	NA
	SOx (mg/m ³)	800	800	NA
Painting	Nox	1000	1000	11.32
	Sox	800	800	6.64

*Emergency generator

BEKASI

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
furnace	NOx (ppm)	1000	1000	39.41
	SOx (-)	800	800	47.51
Degreasing	NOx (ppm)	1000	1000	22.51
	SOx (ppm)	800	800	49.96
Washing	NOx (ppm)	1000	1000	11.03
	SOx (-)	800	800	32.09
Brazing	NOx (ppm)	1000	1000	10.51
	SOx (-)	800	800	24.62

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximun	Minimun	Average
Ph		6-9	7.4	7.4	7.4
BOD(mg/l)		75	6.55	6.55	6.55
COD(mg/l)		100	11.9	11.9	11.9
Oil content (mg/l)		5	0.8	0.8	0.8
Copper (mg/l)		1	ND	ND	ND
Zinc (mg/l)		2	0.27	0.27	0.27
Soluble iron (mg/l)		5	0.2	0.2	0.2
Fluorine (mg/l)		2	ND	ND	ND

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.

Fact Book

DNMY DENSO (MALAYSIA) SDN. BHD.

Location: Lot 2, Jalan P/1, Section 13, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia
 Main products: Electrical automotive components
 No. employees: 1,404

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

Environmental total data

Category		Actual Measurement
Input	Energy consumption(GJ)	264719
	Water consumption(m ³)	111480
	The input volume of hazardous material (t)	/
Greenhouse gas emissions CO ₂ (t-CO ₂)		4042.7
Atmosphere	P.M. (t)	0.00024
	NOx (t)	/
	SOx (t)	/
Drainage volume (m ³)		9459
Water	BOD (t)	0.414
	COD (t)	0.0736
	Nitrogen (t)	/
	Phosphorous (t)	/
The output volume of hazardous material (t)		/
Emission	Amount of recyclable resources	12.3
	External recycling(Receive money)(t)	233.72
	External recycling(Pay money)(t)	/
	In-house recycling(t)	/
Waste emissions (t)		548.66

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Oven	P.M. (g/Nm ³)	400	400	104
	NOx (ppm)	2,000	2,000	0.03
	SOx (-)	200	200	ND
Brazing furnace	P.M.(g/Nm ³)	400	400	25
	NOx (ppm)	2,000	2,000	0.03
	SOx (-) (K value)	200	200	16.02
Generator	P.M. (g/Nm ³)	400	400	84
	NOx (ppm)	2,000	2,000	ND
	SOx (-)	200	200	ND

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium(mg/l)	0.01	0.01	< 0.0003	< 0.0003	< 0.0003
Cyanide(mg/l)	0.05	0.05	< 0.002	< 0.002	< 0.002
Lead(mg/l)	0.1	0.1	< 0.02	< 0.02	< 0.02
Hexavalent chromium(mg/l)	0.05	0.05	< 0.0005	< 0.0005	< 0.0005
BOD(mg/l)	20	20	12	8	10.4
COD(mg/l)	50	50	48	38	43.8
SS(mg/l)	50	50	24	1	4.6
Oil content(mg/l)	ND	ND	ND	ND	ND
Phenol(mg/l)	0.001	0.001	< 0.0005	< 0.0005	< 0.0005
Copper(mg/l)	0.2	0.2	0.07	ND	0.025
Zinc(mg/l)	2	2	1.85	0.09	1.044
Soluble iron(mg/l)	1	1	0.94	0.03	0.4
Chromium(mg/l)	0.2	0.2	< 0.005	< 0.005	< 0.005
Tin(mg/l)	0.2	0.2	< 0.2	< 0.2	< 0.2
Nickel(mg/l)	0.2	0.2	0.19	0.08	0.155
pH	6.0-9.0	6.0-9.0	8.7	6.9	7.2
Arsenic(mg/l)	0.05	0.05	< 0.0005	< 0.0005	< 0.0005
Boron(mg/l)	1	1	< 0.05	< 0.05	< 0.05
SS(mg/l)	50	50	24	1	4.55
Manganese(mg/l)	0.2	0.2	< 0.002	< 0.002	< 0.002
Mercury(mg/l)	0.005	0.005	< 0.0007	< 0.0007	< 0.0007
Chlorine(mg/l)	1	1	< 0.05	< 0.05	< 0.05
Sulphide(mg/l)	0.5	0.5	< 0.005	< 0.005	< 0.005

DNPS DENSO PS CORPORATION

Location: 47, Sungsan-dong, Changwon-city Kyungnam, Korea
 Main products: Manufacture and sale of small motors, fuel pumps, and electrical automotive components
 No. employees: 1,754

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

Environmental total data

Category		Actual Measurement
Input	Energy consumption(GJ)	192601
	Water consumption(m ³)	67834
	The input volume of hazardous material (t)	68.19
Greenhouse gas emissions CO ₂ (t-CO ₂)		2645
Atmosphere	P.M. (t)	0
	NOx (t)	0
	SOx (t)	0
Drainage volume (m ³)		4034
Water	BOD (t)	0
	COD (t)	0
	Nitrogen (t)	0
	Phosphorous (t)	0
The output volume of hazardous material (t)		52.62
Emission	Amount of recyclable resources	201
	External recycling(Receive money)(t)	316
	External recycling(Pay money)(t)	0
	In-house recycling(t)	0
Waste emissions (t)		552.2

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Incinerator	P.M.(mg/Sm ³)	200	200	41.05
	NOx (ppm)	200	200	57.759
	SOx (ppm)	300	300	52.09
	Hydrogen Chloride (ppm)	50	50	15.162

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium(mg/l)	0.1	0.08	0.024	0.003	0.0092
Lead(mg/l)	1	0.8	0.225	0.017	0.101
Hexavalent chromium(mg/l)	0.5	0.3	0.068	ND	0.035
COD(mg/l)	130	80	30.7	6.9	15.65
SS(mg/l)	120	80	17.1	2.2	6.67
Oil content(mg/l)	5	3	1	0.3	0.47
Copper(mg/l)	3	2	0.976	0.01	0.454
Zinc(mg/l)	5	3	1.25	0.115	0.523
Chromium(mg/l)	2	1	1.623	0.011	0.23675
Nitrogen(mg/l)	60	30	55.683	12.306	31.734
Phosphorous(mg/l)	8	5	0.94	0.019	0.167

Hongsung plant

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
Cadmium(mg/l)	0.1	0.08	NA	NA	NA
Lead(mg/l)	1	0.8	NA	NA	NA
Hexavalent chromium(mg/l)	0.5	0.3	NA	NA	NA
COD(mg/l)	130	80	36	20.5	26.10
SS(mg/l)	120	80	36	14	27.28571429
Oil content(mg/l)	5	3	1	0	0.43
Copper(mg/l)	3	2	0.372	0	0.17875
Zinc(mg/l)	5	3	2.809	0.228	1.846875
Chromium(mg/l)	2	1	NA	NA	NA
Nitrogen(mg/l)	60	30	NA	NA	NA
Phosphorous(mg/l)	8	5	NA	NA	NA

TRI

(Unit : t/year)

Company, Plant	Material name	Usage volume	Inside office									Outside office						Other transfer to other than office.
			Emission			Amount of wastes			Emission			Amount of wastes						
			Atmosphere (toxic)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment	Sulfide generation		
Headquarter	Toluene	3.76	3.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Xylene	16.38	14.54	0	0	0	0	0	0	0	0	0	1.84	0	0	0	0	0
	1,1,1-TCE	34.31	31.81	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0
	"4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane"	13.74	0	0	0	0	0	0	0	0	0	0	0	1.98	0	0	0	11.76

Note ※NOx: Nitrogen oxides K value: An index established through local ordinances for limiting the volume of SOx emissions. ★The actual measurements shown refer to maximum values with respect to the control values for each particular installation. ※Sulfur oxides K values are lower (more stringent) in regions in which there is concern over the possibility of high concentrations of SOx. ※Facilities below a specified size (excluded under legal and other regulations) are not included.

PAC PHILIPPINE AUTO COMPONENTS, INC.

■ Location: Road 1 Lot 1 Phase-A, Carmelray Industrial Park, Canlubang, Calamba, Laguna, Philippines
■ Main products: Manufacture and sale of instrument clusters and air conditioners
■ No. employees: 641

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

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	46,387	
	Water consumption(m ³)	27,130	
	The input volume of hazardous material (t)	-	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	735.68	
	Atmosphere	P.M. (t)	0.002108425
		NOx (t)	0.03168275
		SOx (t)	0.002260638
	Drainage volume (m ³)	-	
	Water	BOD (t)	1.1988747
		COD (t)	2.5315003
		Nitrogen (t)	-
		Phosphorous (t)	-
	The output volume of hazardous material (t)	-	
Emission	Amount of recyclable resources	350.64	
	External recycling (Receive money) (t)	0.00	
	External recycling (Pay money) (t)	0.00	
	In-house recycling (t)	0.00	
Waste emissions (t)	7.00		

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum)
Gen Set	P.M. (mg/Ncm)	150	150	84.9
	NOx (mg/Ncm)	2000	2000	554.76
	SOx (mg/Ncm)	1500	1500	164
Painting Booth	P.M. (ug/Ncm)	300	300	45.1
Soldering Section	Lead (ug/Ncm)	300	300	<0.03
Printing Machine Booth	P.M. (ug/Ncm)	300	300	-
	NOx (ug/Ncm)	260	260	-
Yellow Room	P.M. (ug/Ncm)	300	300	-
	SOx (ug/Ncm)	340	340	-
Ink Mixing Booth	P.M. (ug/Ncm)	300	300	-

TDE TIANJIN DENSO ELECTRONICS CO., LTD.

■ Location: No.166 Dongting Road, TEDA, Tianjin, China
■ Main products: Manufacture and sale of automotive electronic control components
■ No. employees: 349

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

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	40911	
	Water consumption(m ³)	30411	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	4062.3	
	Atmosphere	P.M. (t)	0.071
		NOx (t)	0
		SOx (t)	0
	Drainage volume (m ³)	24328.8	
	Water	BOD (t)	4.2
		COD (t)	-
		Nitrogen (t)	0.43
		Phosphorous (t)	0
	The output volume of hazardous material (t)	/	
Emission	Amount of recyclable resources	75.6	
	External recycling (Receive money) (t)	4	
	External recycling (Pay money) (t)	-	
	In-house recycling (t)	-	
Waste emissions (t)	12		

DMCZ DENSO MANUFACTURING CZECH s.r.o.

■ Location: Heyrovského 476, 462 07 Liberec 23, Czech Republic
■ Main products: Manufacture of HVAC units, evaporators, condensers, and radiators
■ No. employees: 1,432

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

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	358163	
	Water consumption(m ³)	39005	
	The input volume of hazardous material (t)	/	
Output	Greenhouse gas emissions CO ₂ (t-CO ₂)	23462	
	Atmosphere	P.M. (t)	0.3
		NOx (t)	7.6
		SOx (t)	0.03
	Drainage volume (m ³)	33744	
	Water	BOD (t)	-
		COD (t)	11.5
		Nitrogen (t)	-
		Phosphorous (t)	-
	The output volume of hazardous material (t)	/	
Emission	Amount of recyclable resources	1058	
	External recycling (Receive money) (t)	142	
	External recycling (Pay money) (t)	8	
	In-house recycling (t)	8	
Waste emissions (t)	830		

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximum	Minimum	Average
COD(mg/l)	800	800	65	< 5	41
chlorides(mg/l)	28	28	22	6.4	12.7
undissolved substances(mg/l)	10	10	< 10	< 5	< 7
non-polar extractable substances (mg/l)	5	5	0.11	< 0,099	< 0,1

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.

Fact Book

DMVN DENSO MANUFACTURING VIETNAM CO., LTD.

■ Location: Plot E-1, Thang Long Industrial Park, Dong Anh Dist., Hanoi, Vietnam
■ Main products: Manufacture and sale of air flow meters, TGV actuators, and other engine-related products
■ No. employees: 673

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	46000	
	Water consumption(m ³)	16000	
	The input volume of hazardous material (t)	13	
Greenhouse gas emissions CO ₂ (t-CO ₂)		/	
Output	Atmosphere		
	P.M. (t)	/	
	NOx (t)	/	
	SOx (t)	/	
	Drainage volume (m ³)		1500
	Water		
	BOD (t)	2.292	
	COD (t)	3.45	
	Nitrogen (t)	0.075	
	Phosphorous (t)	0.06	
The output volume of hazardous material (t)		2.6	
Emission	Amount of recyclable resources	365	
	External recycling/Receive money (t)	-	
	External recycling (Pay money) (t)	-	
	In-house recycling (t)	0	
Waste emissions (t)		1600	

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum) *
AFM Line	VOC (mg/m ³)	300	150	20.33
	SO ₂ (mg/m ³)	10	5	0.062
	NO ₂ (mg/m ³)	10	5	0.065
TGV&EGRV Line	VOC (mg/m ³)	300	150	5.13
	SO ₂ (mg/m ³)	10	5	0.103
	NO ₂ (mg/m ³)	10	5	0.066
APM Line	VOC (mg/m ³)	300	150	10.926
	SO ₂ (mg/m ³)	10	5	0.005
	NO ₂ (mg/m ³)	10	5	0.037
Maintenance	VOC (mg/m ³)	300	150	11.02
	SO ₂ (mg/m ³)	10	5	0.004
	NO ₂ (mg/m ³)	10	5	0.055
Out of Factory	VOC (mg/m ³)	5	2.5	0.66
	SO ₂ (mg/m ³)	0.5	0.25	0.001
	NO ₂ (mg/m ³)	0.4	0.2	0.002

Water Pollution data

Substance	Legal Limit	In-house Standard	Actual Measurement		
			Maximun	Minimun	Average
Cadmium(mg/l)	0.02	0.01	0.0020	0.0010	0.0015
Lead(mg/l)	0.50	0.25	0.0025	0.0010	0.0018
Oil content(mg/l)	1.00	0.50	0.8800	0.1610	0.5205
Copper(mg/l)	1.00	0.50	0.0031	0.0200	0.0116
Zinc(mg/l)	2.00	1.00	0.0873	0.0133	0.0503
Soluble iron(mg/l)	5.00	2.50	3.5630	0.4000	1.9815
Chromium(mg/l)	2.00	1.00	0.4000	0.1000	0.2500
Fluorine(mg/l)	2.00	1.00	0.6000	0.2500	0.4250
Tin(mg/l)	1.00	0.50	0.0100	0.0021	0.0061
Nickel(mg/l)	1.00	0.50	0.0100	0.0010	0.0055

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

NPI

(Unit : t/year)

Material name	Usage volume	Inside office							Outside office						Other transfer to other than office.		
		Emission			Amount of wastes				Emission		Amount of wastes						
		Atmosphere (stack)	Atmosphere (others)	Water body	Soil	Landfilling	Recycle	Energy recovery	Treatment	Landfilling	Recycle	Energy recovery	Treatment	Public treatment		Sudden generation	
Toluene & Xylene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other VOC	13	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	0	0

SDM SIAM DENSO MANUFACTURING CO., LTD.

■ Location: AMATA NAKORN Industrial Estate 700/618 T.Bankao A.Panthong, Chonburi 20160 Thailand
■ Main products: Manufacture of fuel injection system products (fuel pumps and injectors)
■ No. employees: 1,736

Environmental total data

Category		Actual Measurement	
Input	Energy consumption(GJ)	268344	
	Water consumption(m ³)	202008	
	The input volume of hazardous material (t)	/	
Greenhouse gas emissions CO ₂ (t-CO ₂)		18546.54	
Output	Atmosphere		
	P.M. (t)	-	
	NOx (t)	-	
	SOx (t)	-	
	Drainage volume (m ³)		161606.40
	Water		
	BOD (t)	-	
	COD (t)	-	
	Nitrogen (t)	/	
	Phosphorous (t)	/	
The output volume of hazardous material (t)		/	
Emission	Amount of recyclable resources	606.49	
	External recycling/Receive money (t)	/	
	External recycling (Pay money) (t)	/	
	In-house recycling (t)	/	
Waste emissions (t)		375.41	

Air Pollution data

Type of Facility	Substance	Legal Limit	In-house Standard	Actual Measurement (Maximum) *
Boiler	P.M. (mg/Ncm)	400	400	28.25
	NOx (mg/Ncm)	470	470	107.16
	SOx (mg/Ncm)	950	950	-

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

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.