Minebea's global presence currently encompasses 29 plants and over 37 sales offices in 16 countries, having operations in a wide-ranging field.

The chart below depicts input and output from Minebea's plants in fiscal 2008.

■Input-Output Flow and Material Balance (1)



below 7.0 is acidic.

pH: A solution's pH reading indicates whether it is alkaline or acidic. The pH range is from 0 to 14, with 7.0 being neutral. Anything above 7.0 is alkaline, anything

Energy Consumption and Resulting CO₂ Emissions (Fiscal 2008)

Energy	Unit	Japan	Thailand	China	Singapore	United Kingdom	Germany	United States	Slovakia	Total
Electricity	MWh	44,377	480,123	105,046	48,185	15,688	2,634	37,139	795	733,988
Kerosene	kiloliters	42	0	106	0	0	0	3	0	151
Heavy oil A	kiloliters	425	0	0	0	0	0	0	0	425
Light oil	kiloliters	9	704	74	166	0	0	111	0	1,064
Gasoline	kiloliters	18	324	234	30	0	12	1	0	619
LPG	Tons	148	39	160	10	0	0	37	0	394
City gas	1,000 m ³	766	2,638	0	0	44	108	641	47	4,244
Water	1,000 m ³	188	1,692	423	180	455	3	75	41	3,057
CO ₂ emissions	Tons	23 527	263 146	84 258	26 747	7 512	1 172	23 028	282	429 672

Note: In determining values for use in calculating CO₂ emissions at sites in Japan, Minebea referred to the Greenhouse Gas Emission Calculation Guideline for Businesses, version 2.4, published by Japan's Ministry of the Environment. In determining values for use in calculating CO₂ emissions overseas, Minebea referred to Greenhouse Gas (GHG) Protocol (2005) criteria.



Waste (12)

									(Tons)
Classification	Japan	Thailand	China	Singapore	United Kingdom	Germany	United States	Slovakia	Total
 Reused or recycled internally 	27	460	1,995	140	70	0	10	0	2,703
② Transported outside the Company as waste	1,070	19,684	7,732	2,611	400	23	2,485	198	34,202
③ Reused or recycled externally	301	15,603	6,429	1,706	117	8	1,849	123	26,136
(4) Disposed of as landfill	84	4,081	495	453	283	1	530	8	5,935
Note Element for Original allow		1011 1 1 1							





Handling and Transfer of PRTR Chemicals (Japan; as reported to relevant authorities)

							(Tons)	
PRTR	Chamical	Volume		Transfer	Plant			
Number	Number Cnemical	Handled	Released into the Atmosphere Released into Water		Landfill	Waste	Fidili	
232	Nickel compounds	0.8	0	0.03	0	0.28	Fujisawa Plant	

Minimizing Water and Air Pollution

\bigcirc Concentrations in Water

Japan									
Karuizawa Plant				(mg/liter)	Hamamatsu Plant				(mg/liter)
Item	Legal Limit	Voluntary Limit	Maximum	Average	Item	Legal Limit	Voluntary Limit	Maximum	Average
pН	5.8-8.6	6.0-8.0	7.7	7.5	рН	5.8-8.6	6.0-8.0	7.6	7.2
COD	30	10	5.0	3.4	COD	25	20	10.8	6.3
BOD	30	10	2.5	1.7	BOD	25	20	6.3	2.1
SS	50	30	20.0	8.8	SS	40	25	20.4	6.8
n-Hexane extractions	5	2	<1.0	<1.0	n-Hexane extractions	5	5	<1.0	<1.0
Fujisawa Plant				(mg/liter)					
Item	Legal Limit	Voluntary Limit	Maximum	Average					
pН	5.8-8.6	6.6-7.8	7.4	7.0					
COD	60	30	13.0	6.0					
BOD	60	30	8.0	2.0					
SS	90	10	3.0	2.0					
n-Hexane extractions	5	2	1.0	1.0					

China

Shanghai Plant				(mg/liter)	Xicen Plant				(mg/liter)
Item	Legal Limit	Voluntary Limit	Maximum	Average	Item	Legal Limit	Voluntary Limit	Maximum	Average
pН	6-9	7-8	8.0	7.6	рН	6-9	7-8	8.0	7.6
COD	60	20	16.2	10.9	COD	60	20	11.9	6.1
BOD	15	5	2.2	0.7	BOD	15	5	4.7	0.6
SS	70	10	9.5	3.9	SS	70	10	9.4	4.6
n-Hexane extractions	3	1	1.0	0.7	n-Hexane extractions	3	1	1.0	0.7

Thailand

Bang Pa-in Plant				(mg/liter)	Lop Buri Plant				(mg/liter)
Item	Legal Limit	Voluntary Limit	Maximum	Average	Item	Legal Limit	Voluntary Limit	Maximum	Average
pН	5.5-9.0	6.5-8.5	8.4	7.6	рН	5.5-9.0	6.5-8.5	8.1	7.6
COD	120	80	42.0	32.2	COD	120	80	67.0	25.0
BOD	20	18	5.8	3.0	BOD	20	18	5.0	3.0
SS	50	20	5.1	2.1	SS	50	20	13.0	2.5
n-Hexane extractions	5	5	4.9	2.6	n-Hexane extractions	5	5	1.3	1.0
Rojana Plant				(mg/liter)	Ayutthaya Plant				(mg/liter)
Item	Limit for Industrial Estate	Legal Limit	Maximum	Average	Item	Legal Limit	Voluntary Limit	Maximum	Average
pН	5.5-9.0	6.0-8.8	6.8	6.7	рН	5.5-9.0	6.5-8.5	8.1	7.6
COD	1250	1000	238.0	171.0	COD	120	80	62.6	32.1
BOD	500	450	71.0	48.0	BOD	20	18	<3.0	<3.0
SS	200	150	13.0	12.0	SS	50	20	3.7	0.7
n-Hexane extractions	10	10	2.5	2.2	n-Hexane extractions	5	5	2.7	1.9

\bigcirc Concentrations in Air

Karuizawa Plant	t (Through flo	ow-type hot w	water boiler)		Karuizawa Plant (Vacuum hot water boiler No.2)						
Item	Unit	Legal Limit	Voluntary Limit	Maximum	Average	Item	Unit	Legal Limit	Voluntary Limit	Maximum	Average
Particulates	g/m ³ N	—	0.25	<0.005	<0.005	Particulates	g/m ³ N	—	0.25	<0.005	<0.005
NOx	ppm	—	150	37	37	NOx	ppm	—	150	56	56
SOx	m ³ N/h	—	1	<0.010	<0.010	SOx	m ³ N/h	—	1	<0.015	<0.015
Karuizawa Plant	t (Vacuum ho										
		ot water boile	er No.1)			Hamamatsu Pla	nt (Absorptio	on chiller hea	ater)		
Item	Unit	Legal Limit	voluntary Limit	Maximum	Average	Hamamatsu Pla Item	nt (Absorptio Unit	on chiller hea Legal Limit	ater) Voluntary Limit	Maximum	Average
Item Particulates	Unit g/m ³ N	Legal Limit	Voluntary Limit 0.25	Maximum <0.005	Average <0.005	Hamamatsu Pla Item Particulates	nt (Absorptio Unit g/m ³ N	on chiller hea Legal Limit 0.3	ter) Voluntary Limit 0.2	Maximum <0.01	Average <0.01
Item Particulates NOx	Unit g/m ³ N ppm	Legal Limit — —	Voluntary Limit 0.25 150	Maximum <0.005 54	Average <0.005 54	Hamamatsu Pla Item Particulates NOx	nt (Absorptio Unit g/m ³ N ppm	on chiller hea Legal Limit 0.3 180	ater) Voluntary Limit 0.2 100	Maximum <0.01 70	Average <0.01 67