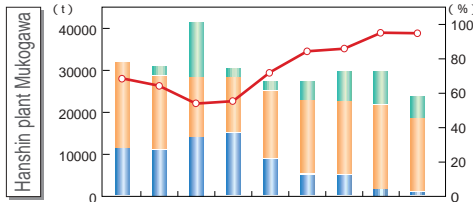
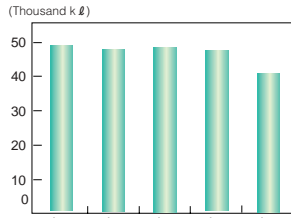


Data in each plant

Discharged amount of industrial waste and its recycling rate



Energy consumption



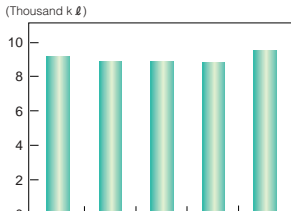
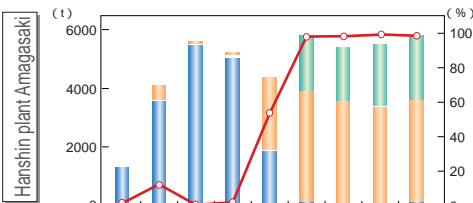
Amount of emission and transfer of chemical substances (in fiscal 2002)

(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
63		Xylene	8,900	0	0	0	0	31
227		Toluene	65,000	0	0	0	0	540
231		Nickel	2.5	0	0	0	0	0

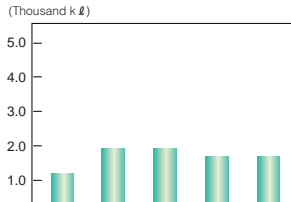
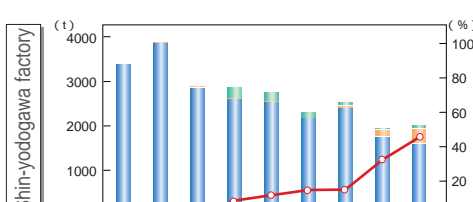
Marushima factory

40		Ethylbenzene	13,000	0	0	0	0	8.0
63		Xylene	49,000	0	0	0	0	11
227		Toluene	52,000	0	0	0	0	200
231		Nickel	1.1	0	0	0	0	0



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
68		Chromium and its trivalent compounds	0	0	0	0	11	1,700
231		Nickel	0	0	0	0	0	1.1
311		Manganese and its compounds	0	0	0	0	2.3	720
346		Molybdenum and its compounds	0	0	0	0	0	0

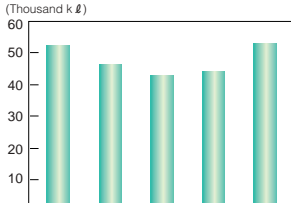
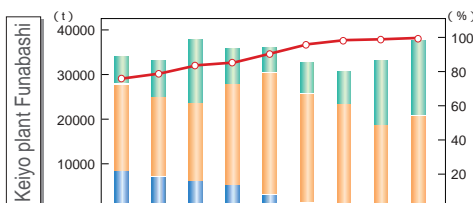


(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
177		Styrene	23,000	0	0	0	0	0
*	179	Dioxins	0.40	0	0	0	0	0.80

Shin-yodogawa environmental plant center

*	179	Dioxins	0.0017	0	0	0	0	0.37
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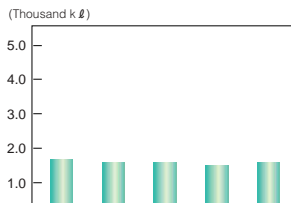
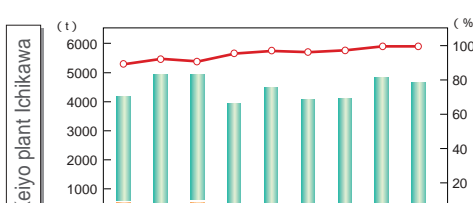


(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
40		Ethylbenzene	39,000	0	0	0	0	0
63		Xylene	100,000	0	0	0	0	0
227		Toluene	110,000	0	0	0	0	0
231		Nickel	0	0	0	0	0	13

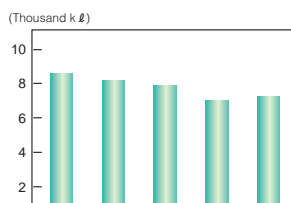
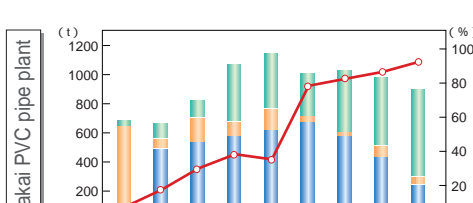
Distribution and machining center

40		Ethylbenzene	14,000	0	0	0	0	0
63		Xylene	49,000	0	0	0	0	0
227		Toluene	14,000	0	0	0	0	0



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
311		Manganese and its compounds	0	0	0	0	0	30



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
176		Organic tin compounds	1.0	0	0	0	0	11
230		Lead and its compounds	9.0	0	0	0	0	84
312		Phthalic anhydride	0	0	0	0	0	0

Ishizu-nishi factory

230		Lead and its compounds	0.2	0	0	0	0	15
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Legends
 Recycling rate
 Amount of unvaluable substances sold
 Amount of recycling and intermediate treatment
 Amount of landfill

Legends
 Energy consumption

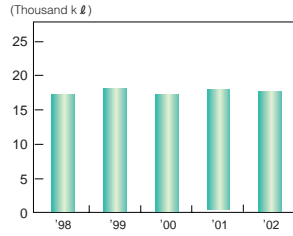
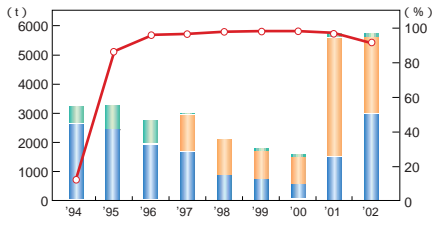
* Class 1 designated chemical substances

Discharged amount of industrial waste and its recycling rate

Energy consumption

Amount of emission and transfer of chemical substances (in fiscal 2002)

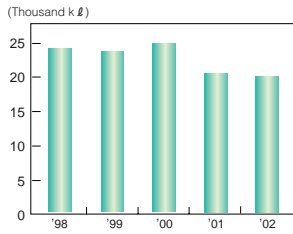
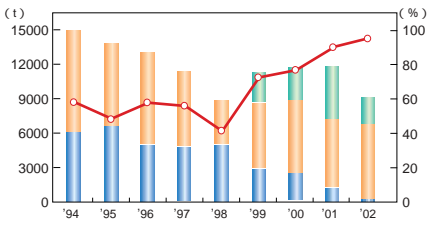
Odawara plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
*	176	Organic tin compounds	10	0	0	0	0	15
	179	Dioxins	2.6	0	0	0	0	0.31
	230	Lead and its compounds	39	0	0	0	0	530

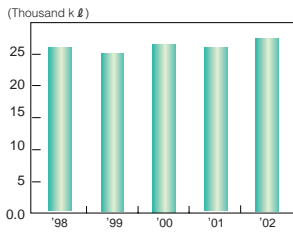
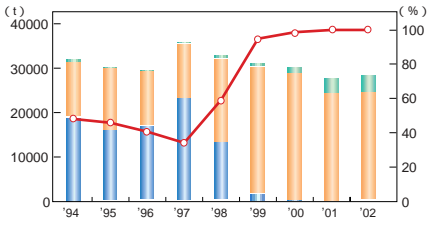
Hirakata planta



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	40	Ethylbenzene	2,300	0	0	0	0	950
	63	Xylene	4,200	0	0	0	0	5,000
	68	Chromium and its trivalent compounds	0	0	0	0	0	14,000
	227	Toluene	3,200	0	0	0	0	8,400
	231	Nickel	0	0	0	0	0	0.4
	304	Boron and its compounds	0	0	0	0	0	72
	311	Manganese and its compounds	0	0	0	0	0	8,800
	346	Molybdenum and its compounds	0	0	0	0	0	0

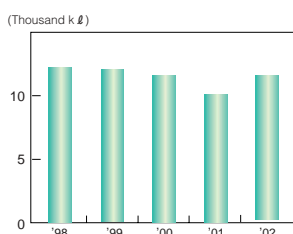
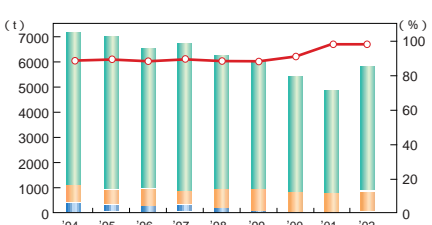
Okajima plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	30	Bisphenol A type epoxy resin	0	0	0	0	0	2,000
	40	Ethylbenzene	5,500	0	0	0	0	1,800
	63	Xylene	33,000	0	0	0	0	11,000
	68	Chromium and its trivalent compounds	0	0	0	0	0	8,400
	231	Nickel	0	0	0	0	0	0
	266	Phenol	0	0	0	0	0	0
	311	Manganese and its compounds	0	0	0	0	0	66,000

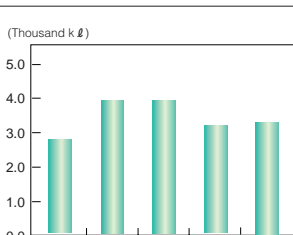
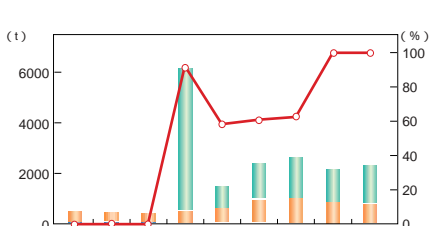
Sakai plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	16	2-aminoethanol	0	0	0	0	0	5,100
	40	Ethylbenzene	680	0	0	0	0	420
	43	Ethylene glycol	0	0	0	0	0	120
	63	Xylene	3,400	0	0	0	0	1,900
	227	Toluene	910	0	0	0	0	2,100

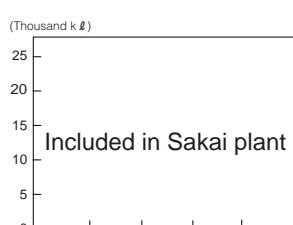
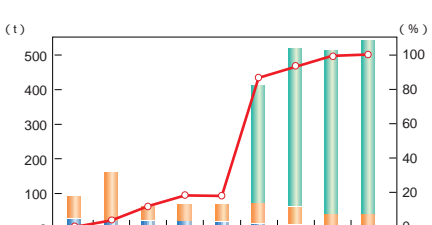
Sakai coastal plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	163	Xylene	370	0	0	0	0	1,900
	227	Toluene	410	0	0	0	0	2,100

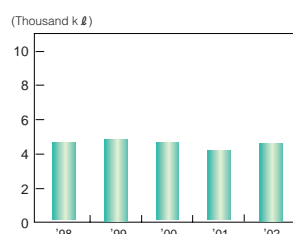
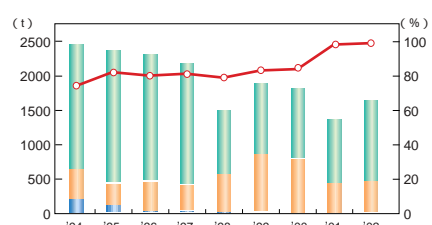
Naniwa factory



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	211	Trichloroethylene	7,100	0	0	0	0	8,400

Utsunomiya plant



(unit: kg/year, mg-TEQ/year for dioxins)

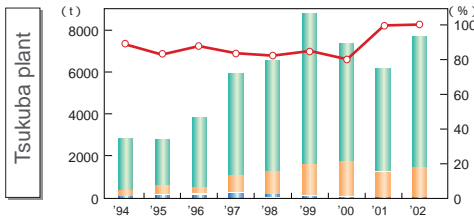
Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	40	Ethylbenzene	6,700	0	0	0	0	240
	43	Ethylene glycol	0	0	0	0	0	0
	63	Xylene	32,000	0	0	0	0	770
	227	Toluene	2,200	0	0	0	0	1,300

Legends
 ○ Recycling rate
 ■ Amount of valuable substances sold
 ■ Amount of recycling and intermediate treatment
 ■ Amount of landfill

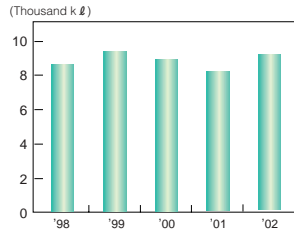
Legends
 ■ Energy consumption

* Class 1 designated chemical substances

Discharged amount of industrial waste and its recycling rate



Energy consumption

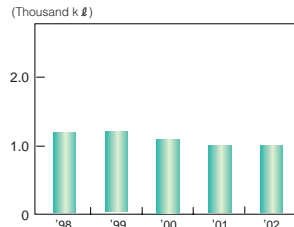
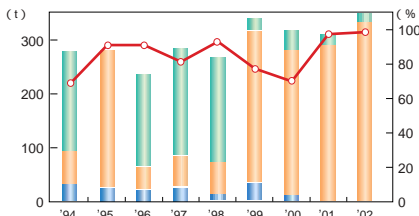


Amount of emission and transfer of chemical substances (in fiscal 2002)

(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	40	Ethylbenzene	11,000	0	0	0	0	200
	43	Ethylene glycol	0	0	0	0	0	0
	63	Xylene	65,000	0	0	0	0	3,400
*	69	Hexavalent chromium compounds	0	0	0	0	0	450
	227	Toluene	8,500	0	0	0	0	640
	230	Lead its compounds	0	0	0	0	0	2,100

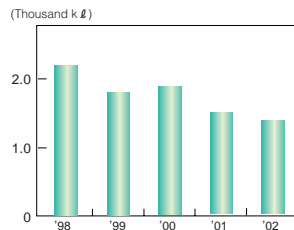
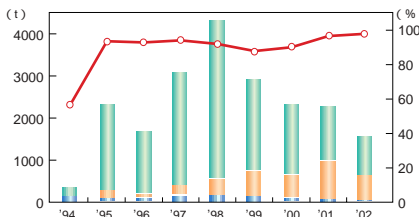
Kyuhoji plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
		No notified chemical substances						

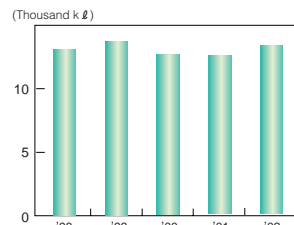
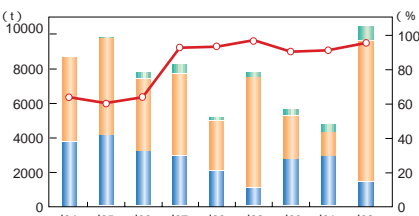
Ryugasaki plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	63	Xylene	8,300	0	0	0	0	22

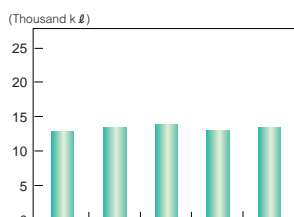
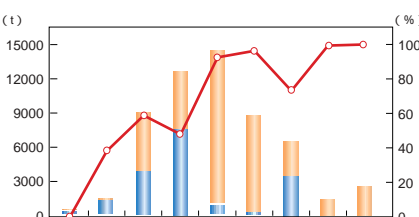
Shiga plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	68	Chromium and its trivalent compounds	0	0	0	0	0	87
	177	Styrene	37,000	0	0	0	0	0
	304	Boron and its compounds	0	0	0	0	0	1,100

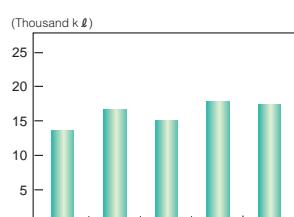
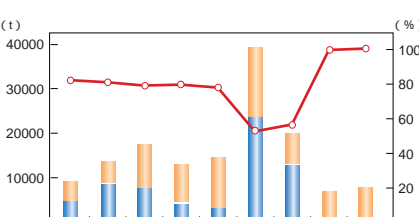
Ohama plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	40	Ethylbenzene	60,000	0	0	0	0	0
	63	Xylene	110,000	0	0	0	0	0
*	179	Dioxins	6.3	0	0	0	0	0.29
	227	Toluene	48,000	0	0	0	0	0

Kashima plant



(unit: kg/year, mg-TEQ/year for dioxins)

Designated	Number specified in cabinet order	Substances	Amount of emission				Amount of transfer	
			Air	Water	Soil	Landfill	Sewage	Transfer from plants
	40	Ethylbenzene	150,000	0	0	0	0	130
	63	Xylene	260,000	0	0	0	0	220
	227	Toluene	14,000	0	0	0	0	11

Legends
 Recycling rate (red line with circles)
 Amount of valuable substances sold (green bars)
 Amount of recycling and intermediate treatment (orange bars)
 Amount of landfill (blue bars)

Legends
 Energy consumption (green bars)

* Class 1 designated chemical substances