

Reducing Released and Transferred Chemical Substances

<p>Targets for 2004</p> <p>Emission of chemical substances into the atmosphere Non-consolidated: 30% or less of 2000 level Consolidated: 70% or less of 2000 level</p>	<p>Results for 2004</p> <p>Non-consolidated: 24% target achieved Consolidated: 38% target achieved</p>	<p>Targets for 2005</p> <p>Non-consolidated: 15% or less Consolidated: 25% or less</p>
---	--	--

Reducing emissions of chemical substances

In 2000, the Hitachi Chemical Group included the chemical substances subject to PRTR Law* in addition to the self-regulated substances (methyl ethyl ketone, acetone, etc.) in the targeted substances for reduced emission. Reduction is planned to be 25% or less in 2005 and 10% or less in 2007, both compared to 2000.

In 2004, chemical substances

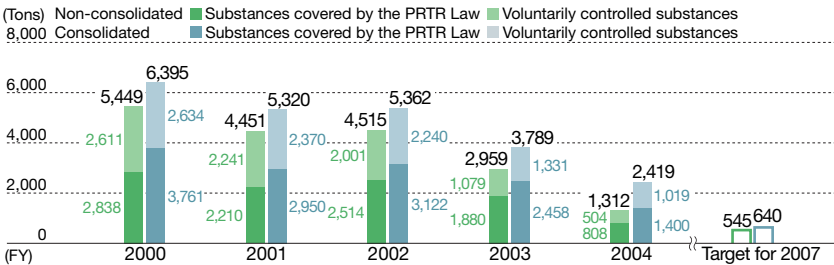
emitted into the atmosphere amounted to 1,312 tons on a non-consolidated basis and 2,419 tons on a consolidated basis, each being 24% and 38% compared to 2000. This was achieved by effective use of raw materials, conversion of production methods, and collection by activated carbon absorption, cooling, condensation, absorption, membrane separation.

* PRTR (Pollutant Release and Transfer Register) Law: The Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management

Preventing pollution of soil and underground water

The Hitachi Chemical Group used to use chlorinated organic solvent mostly for cleansing purpose. It started survey of soil and underground water pollution in 1991 and their purification in our sites where pollution was detected in 1993. Purification of soil and groundwater has been completed with only a few exceptions. Purification is expected to be completed in the near future for these exceptions.

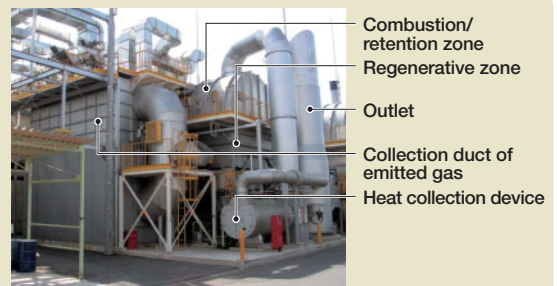
Emission of chemical substances into the atmosphere



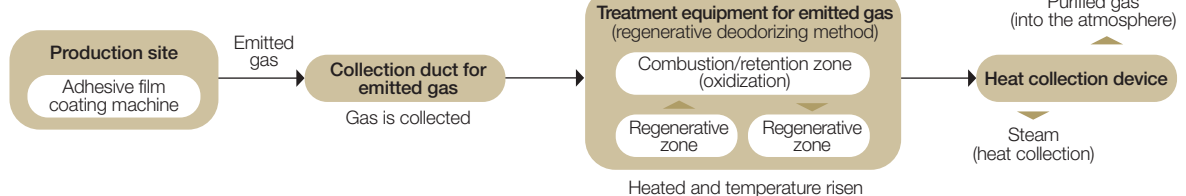
Emission Solvent Gas Treatment Equipment Introduced

Goshomiya Works of Hitachi Chemical introduced treatment equipment for emitted gas and reduced toluene emitted into the atmosphere by 67% (1,000 tons) compared to 2003. The equipment collects all solvent gas from drying furnaces and local exhaust,

sends it to regenerative combustion equipment, and burns it completely at high temperature. The gas is purified through combustion and emitted into the atmosphere. The heat generated by combustion is also collected in the form of steam by the collection device.



Treatment Flow of Emitted Gas



Chemical substances handled, emitted, and transferred by the Hitachi Chemical Group (consolidated) (Tons/year)

PRTR No.	Chemical substance	CAS No.	Amount handled	Amount released					Amount transferred		
				Into atmosphere	To public waterways	To soil	Landfilled	Total	To sewage	Other (wasted)	Total
227	Toluene	108-88-3	10,026	953	0	0	0	953	1	539	540
45	Ethylene glycol monomethyl ether	109-86-4	1,345	232	0	0	0	232	0	327	327
177	Styrene	100-42-5	44,587	75	0	0	0	75	0	126	126
63	Xylene	1330-20-7	2,366	55	0	0	0	55	1	83	84
40	Ethylbenzene	100-41-4	1,635	24	0	0	0	24	1	56	57
172	N,N-dimethylformamide	68-12-2	885	11	0	0	0	11	0	98	98
320	Methyl methacrylate	80-62-6	3,940	8	0	0	0	8	1	50	51
7	Acrylonitrile	107-13-1	558	5	0	0	0	5	0	0	0
310	Formaldehyde	50-00-0	4,660	2	0	0	0	2	0	56	56
266	Phenol	108-95-2	6,293	2	0	0	0	2	0	62	62
313	Maleic anhydride	108-31-6	7,892	1	0	0	0	1	0	5	5
28	Isoprene	78-79-5	1,802	0	0	0	0	0	0	4	4
312	Phthalic anhydride	85-44-9	2,508	0	0	0	0	0	0	6	6
202	Tetrahydromethylphthalic anhydride	11070-44-3	5,385	0	0	0	0	0	0	61	61
	Others		66,641	32	4	0	0	36	0	417	417
PRTR substance total			160,523	1,400	4	0	0	1,404	4	1,890	1,894
Voluntarily controlled substances	Methylethylketone	78-93-3	5,779	467	0	0	0	467	0	936	936
	Ethyl acetate	141-78-6	2,352	195	0	0	0	195	0	75	75
	Methyl alcohol	67-56-1	2,058	138	0	0	0	138	0	192	192
	Acetone	67-64-1	7,599	141	0	0	0	141	0	150	150
	Cyclohexane	110-82-7	624	22	0	0	0	22	0	1	1
	Methyl isobutylketone	108-10-1	207	11	0	0	0	11	0	1	1
	N-methylpyrrolidone	872-50-4	1,620	0	0	0	0	0	0	3	3
	Others		4,098	45	0	0	0	45	0	8	8
Voluntarily controlled substance total			24,337	1,019	0	0	0	1,019	0	1,366	1,366
G. total (PRTR and voluntarily controlled substances)			184,860	2,419	4	0	0	2,423	4	3,256	3,260

CSR Management

In the Market

For the Global Environment

With Employees

In Society