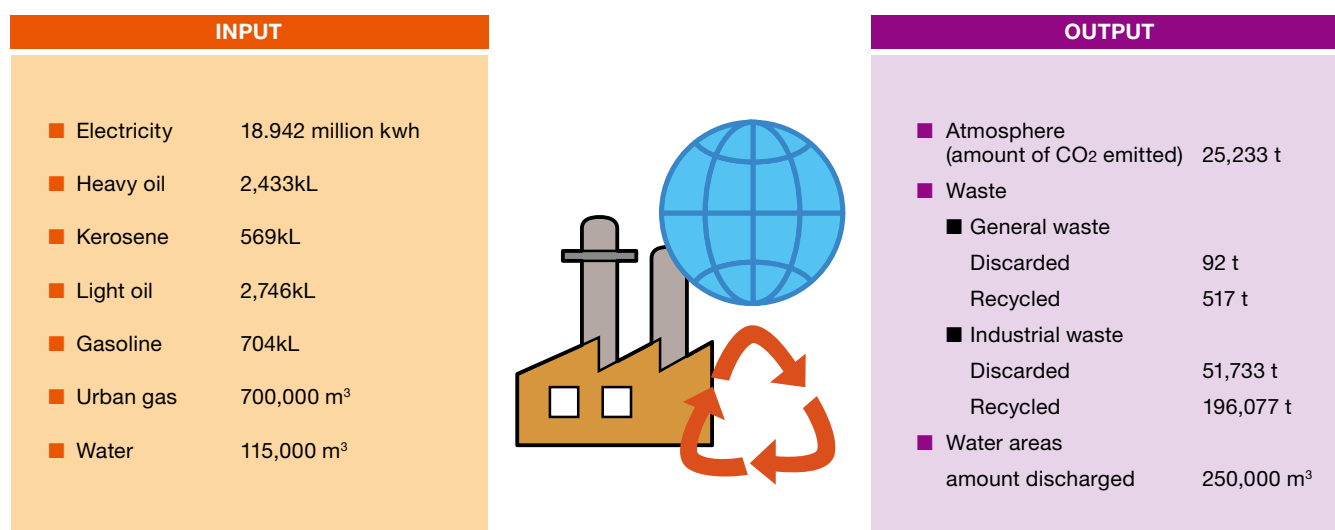


## INPUT-OUTPUT Data

This indicates the INPUT the resources and energy needed for our group's business activities, as well as our OUTPUT in the form of the environmental impact produced through our business activities.\*1



## Environmental Performance

### 1. Yearly changes in environmental data

#### (1) Usage amount, discharged amount \*2

Consumed amount of "Electricity", "Heavy oil" and "Water" has increased due to the operation of a large-scale industrial waste incinerator since November 2007. This resulted in increase of the amount of CO<sub>2</sub> emitted.

Type	Unit	FY2006	FY2007	Compared to prior FY
Electricity	1,000 kwh	15,892	18,942	+19.2%
Heavy oil	kL	1,410	2,433	+72.6%
Kerosene	kL	574	569	-0.9%
Light oil	kL	2,823	2,746	-2.7%
Gasoline	kL	632	704	+11.4%
Urban gas	1,000m <sup>3</sup>	784	700	-10.7%
Water	1,000m <sup>3</sup>	41	115	+180.5%
CO <sub>2</sub>	t	21,653	25,233	+16.5%

\*1, 2 Covering Asahi Pretec, Nihon Chemitech, Sansho, Taiyo Chemical, and Shioiri Kenzai)

## (2) Specific Consumption

Our “specific consumption of electricity for precious metal production” has increased, mainly due to the automatization of the precious metal production process at our Saitama Plant. “Specific consumption of heavy oil for industrial waste incineration” also increased, which is mainly due to the operation of a large-scale industrial waste incinerator since November 2007.

Item	Unit	FY2006	FY2007	Compared to prior FY
Specific consumption of electricity for precious metal production	kwh/kg	28.4	31.2	+9.9%
Specific consumption of heavy oil for industrial waste incineration	L/t	40.4	84.0	+107.9%

Specific consumption of electricity for precious metal production: “amount of electricity used in relation to precious metal production” / “net amount of precious metal products shipped”  
 Specific consumption of heavy oil for industrial waste incineration: “amount of electricity used in relation to industrial waste incineration” / “amount of industrial wastes incinerated”  
 (Covering Asahi Pretec, Nihon Chemitech, Sansho, Taiyo Chemical, and Shioiri Kenzai)



Photovoltaic energy generation roof (Techno-Center)

## 2. Items for Environmental Protection Initiatives

Item	Unit	FY2006	FY2007	Increase/Decrease
Amount of photovoltaic energy generated	kwh	41,400	40,800	-600
Amount of discharge water used (as gray water)	m <sup>3</sup>	6,700	8,800	+2,100

(Covering Asahi Pretec, Nihon Chemitech, Sansho, Taiyo Chemical, and Shioiri Kenzai)

## 3. Recycling Industrial Waste

Item	Unit	Amount of waste	Amount recycled	Recycling rate
FY2007	t	247,810	196,077	79.1%

(Covering Asahi Pretec, Nihon Chemitech, Sansho, Taiyo Chemical, and Shioiri Kenzai)

## 4. Environmental Protection Costs

With reference to the guidelines of the Ministry of the Environment, the cost of expenditures pertaining to the environment were separated into expenses and investments and then calculated.

(Unit: million yen)

	Category	Contents of major initiatives	Expenses	Investments
1. Costs within the business area	(1) Cost of preventing pollution	Control and maintenance of water drainage and gas emission facilities, and so on.	220.11	133.80
	(2) Cost of protecting the earth's environment	Energy saving (Decreasing electric consumption, Reducing fuel for incinerators, Improving fuel-efficiency for vehicles).	3.53	4.20
	(3) Cost of recycling resources	Entrustment of industrial waste treatment	232.09	14.90
2. Upstream and downstream costs		—	0.00	0.00
3. Cost of management activities		Periodical ISO14001 auditing Preparation of Environmental Report	33.24	0.00
4. Research and development costs		Improving efficiency for the precious metal refining process, waste liquid treatment	113.56	218.40
5. Cost of social activities		Clean up activities in the neighboring communities	1.92	0.00
6. Cost of handling environmental damage		—	0.00	0.00
Total		—	604.45	317.30

(Covering Asahi Pretec)