

## Environmental Performance

We measure and monitor the impact on the environment.  
We promote our legal compliance based on this information.

### FY2016 - Environmental Performance Data (Energy, Water, Chemicals, Waste)

INPUT								
Sites	Energy use						Water [m <sup>3</sup> ]	Chemicals handled *1 [ton]
	Electricity [MWh]	Kerosene [kl]	Light oil [kl]	Gasoline [kl]	LPG[ton]	Town gas [km <sup>3</sup> ]		
Tokyo HQ	2,680	--	0.11	0.05	14.7	--	11,220	--
Niigata	6,358	0.92	0.03	0.67	8.8	2.3	15,140	2.4
Omiya SC	121	--	--	--	--	--	--	--
FJFS (Maebashi)	909	--	--	--	--	--	--	--
<b>Total</b>	<b>10,068</b>	<b>0.92</b>	<b>0.14</b>	<b>0.72</b>	<b>23.5</b>	<b>2.3</b>	<b>26,360</b>	<b>2.4</b>

OUTPUT											
Sites	CO <sub>2</sub> emissions [ton-CO <sub>2</sub> ] *2						Water [m <sup>3</sup> ]	Chemicals output *1 [ton]	Waste [ton]		
	Electricity	Kerosene	Light oil	Gasoline	LPG	Town gas			Thermal recycle	Material recycle	To landfill
Tokyo HQ	1,528	0	0.3	0.1	43.2	--	11,220	--	16.1	38.0	--
Niigata	3,624	2.3	0.1	1.6	25.9	5.4	15,140	2.0	151.5	23.7	--
Omiya SC	69	--	--	--	--	--	--	--	--	3.5	--
FJFS (Maebashi)	518	--	--	--	--	--	--	--	7.3	15.5	--
<b>Total</b>	<b>5,739</b>	<b>2.3</b>	<b>0.4</b>	<b>1.7</b>	<b>69.1</b>	<b>5.4</b>	<b>26,360</b>	<b>2.0</b>	<b>174.9</b>	<b>80.7</b>	<b>--</b>

\*1: Chemicals to be managed are based on Fujitsu rule. (except chemicals in a little use which is not applicable to law)

\*2: Used scale factor of electricity is 0.57 ton-CO<sub>2</sub>/MWh from FY2016.

### FY2016 - Environmental Performance Data (Legal Compliance)

Niigata Plant - Water Quality Unit: [mg/L]			
Main Items	Results *3	Legal Sta.	Original Sta.
Hydrogen ion concentration (pH)	6.3 - 7.6	5.8 - 8.6	5.8 - 8.6
Biochemical oxygen demand (BOD)	0.5 - 2.5	25	25
Suspended Solid (SS)	3 - 65	90	72
Boron and its compounds	<1.0	10	5
Fluorine and its compounds	<0.8	8	4

Niigata Plant - Grand Water Unit: [mg/L]			
Main Items	Results *3	Legal Sta.	Original Sta.
Lead and its compounds	0.003	0.01	0.005
Hexavalent chromium compounds	<0.01	0.05	0.025
Arsenic and its compounds	0.002 - 0.029	0.01	0.01
1,1-dichloroethylene	0.08 - 0.15	0.8	0.4
Cis-1, 2-dichloroethylene	<0.004	0.04	0.02
Trichloroethylene	<0.001	0.03	0.015

\*3: "<" means "less than".

Tokyo HQ - Grand Water Unit: [mg/L]			
Main Items	Results *3	Legal Sta.	Original Sta.
Lead and its compounds	<0.002	0.01	0.005
Hexavalent chromium compounds	<0.005	0.05	0.025
Arsenic and its compounds	0.003	0.01	0.005
Nitrate nitrogen and nitrite nitrogen	1.4	10	5
Cis-1, 2-dichloroethylene	<0.004	0.04	0.02
Trichloroethylene	<0.002	0.03	0.015

## Environmental Accounting

The cost was 380 million yen; the effect was 1,320 million yen and cost effectiveness was 950 million yen. As a result, the effective amount decreased by 32.1% (-450 million yen) compared to FY2015.

### FY2016 - Results of Environmental Accounting

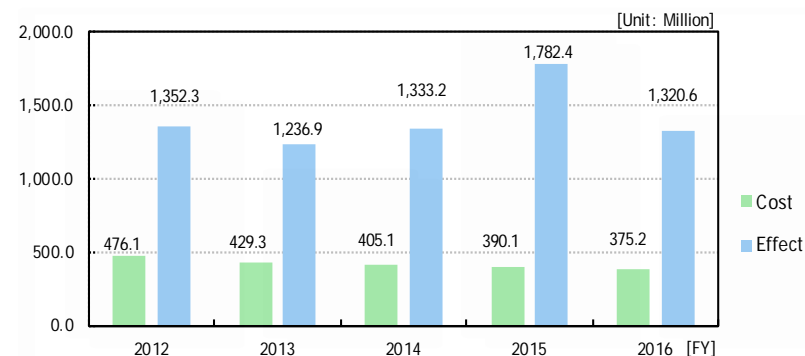
Both environmental R & D cost and effect decreased, mainly because of transfer of POS related business. And, balance decreased as well, though introduction of LED lightings and change of waste to valuable were promoted.

[Results compared to FY2015]

Cost : -14,886 thousand yen ( 390,090 => 375,204)

Effect : -461,781 thousand yen (1,782,416 => 1,320,635)

Balance: -446,895 thousand yen (1,392,326 => 945,431)



### FY2016 - Detail of Environmental Accounting

( ): Compared to FY2015 [Unit: Million yen]

Items		Boundary	Cost	Effect
Within the business area	Pollution Prevention	Air pollution prevention, Water quality protection, etc.	18.7 (-1.4)	19.6 (+1.7)
	Eco Protection	Energy saving, Prevention of the global warming, etc.	43.3 (-2.1)	28.5 (+2.1)
	Resource circulation	Waste disposal, Effective utilization of resources, etc.	81.1 (+3.7)	77.3 (+7.0)
	<b>Sub total</b>		<b>143.1 (+0.3)</b>	<b>125.3 (+10.8)</b>
Up/down stream	Product recycling, Green procurement, etc.	26.4 (-2.4)	9.7 (-0.0)	
Management	ISO14001, Eco training, Information systemization, etc.	66.4 (+2.6)	29.3 (-2.1)	
R & D	Research for eco-friendly technology of products, etc.	139.3 (-15.3)	1,156.3 (-470.4)	
Social activity	Donation and support to eco conservation group, etc.	0.0 (-0.0)	0 (0)	
Eco damage	Recovery of land and ground-water pollution, etc.	0 (0)	0 (0)	
<b>Total</b>			<b>375.2 (-14.9)</b>	<b>1,320.6 (-461.8)</b>