

# Non-Financial Data

## Environmental

### Environment

Samsung SDI has been conducting proactive climate change response activities since 2002 to reinforce its image as an eco-friendly company which suits the concept of the business. Samsung SDI emitted 646,292tCO<sub>2</sub>e of GHG in 2015, showing a decrease by 11.6%(84,797tCO<sub>2</sub>e) YoY, and the company emitted 11,609TJ of energy, which is a 15.2%(2,075TJ) reduction YoY, conforming to the energy and GHG target management system. The company emitted 5.246 million tons of water, decreasing by 17.7% (1.13013 million tons) YoY, due to the termination of PDP business and separation of SDI Chemical's business division.

Item	Category	Unit	2011	2012	2013	2014	2015	
GHG	Direct and Indirect Emissions	Company-wide	tCO <sub>2</sub> e	908,721	888,856	886,939	731,089	646,292
		Domestic	tCO <sub>2</sub> e	668,163	641,018	612,850	481,280	356,766
		Overseas	tCO <sub>2</sub> e	240,558	247,838	274,089	249,809	289,526
		Unit (In Won)	tCO <sub>2</sub> e/ 100 million won	13.12	12.12	13.38	12.88	13.04
	Other Emissions	Company-wide	tCO <sub>2</sub> e	-	3,531	2,460	2,473	3,550
		Employee Business Trips	tCO <sub>2</sub> e	-	2,825	1,860	1,925	2,155
		Product Transportation	tCO <sub>2</sub> e	-	706	600	549	1,395
Energy	Company-wide	TJ	16,455	16,618	16,278	13,684	11,609	
	Domestic	TJ	13,295	13,473	12,937	10,247	7,612	
	Overseas	TJ	3,160	3,145	3,360	3,436	3,997	
	Unit (In Won)	TJ/100 million won	0.24	0.23	0.25	0.24	0.23	
Water	Company-wide	1000 Tons	9,703	9,043	7,553	6,376	5,246	
	Domestic	1000 Tons	6,444	6,032	5,744	4,751	3,456	
	Overseas	1000 Tons	3,258	3,011	1,809	1,625	1,790	
	Unit (In Won)	1000 Tons/ 100 million won	0.14	0.12	0.11	0.11	0.11	
Treated Water Treatment Amount	Company-wide	1000 Tons	8,304	6,831	6,241	4,196	2,908	
	Domestic	1000 Tons	6,476	5,371	5,481	3,771	2,535	
	Overseas	1000 Tons	1,827	1,461	759	425	373	
	Unit (In Won)	1000 Tons/ 100 million won	0.12	0.09	0.09	0.07	0.06	
Waste	Amount of Emissions	Company-wide	Ton	76,636	61,864	54,760	48,508	48,138
		Domestic	Ton	60,482	43,244	42,641	41,902	35,705
		Overseas	Ton	16,155	18,619	12,119	6,606	12,433
		Unit (In Won)	1000 Tons/ 100 million won	1.11	0.84	0.83	0.85	0.97
	Recycling Rate	Company-wide	%	94.3	94.8	95.5	96.1	95.9
		Domestic	%	96.5	96.5	97.1	97.8	98.9
		Overseas	%	86.2	90.7	89.7	85.4	87.1
	Landfill Rate	Company-wide	%	5.7	5.2	4.5	3.9	3.8
		Domestic	%	3.5	3.5	2.9	2.2	0.8
		Overseas	%	13.8	9.3	10.3	14.6	12.6

Item	Category	Unit	2011	2012	2013	2014	2015	
Hazardous chemicals	Company-wide	Ton	29,047	29,091	25,569	13,517	21,429	
	Domestic	Ton	27,796	28,314	25,324	13,330	20,984	
	Overseas	Ton	1,251	777	245	187	445	
	Unit (In Won)	Tons/100 million won	0.42	0.40	0.39	0.24	0.43	
Pollution Level	Water Quality (Domestic)	BOD	kg/100 million won	3.87	2.58	2.07	0.41	0.09
		COD	kg/100 million won	3.92	3.15	2.52	0.78	0.44
		SS	kg/100 million won	2.48	1.80	2.18	0.53	0.27
	Atmosphere (Domestic)	Nox	kg/100 million won	0.12	0.07	0.15	0.08	0.05
		Sox	kg/100 million won	0.00	0.00	0.00	0.07	0.02
		Dust	kg/100 million won	0.32	0.27	0.23	0.33	0.25
	Substances that destroy the Ozone Layer	Company-wide	kgCFC11eq	1,296	822	369	130	1,487
		Domestic	kgCFC11eq	81	92	86	65	26
		Overseas	kgCFC11eq	1,215	729	283	65	1,461
		Unit (In Won)	kgCFC11eq/100 million won	0.019	0.011	0.006	0.002	0.030

#### Notes related to the generation of data

1. The scope of data collection includes all production subsidiaries, headquarters, and research centers in Korea and overseas except for sales subsidiaries and offices. (In the case of production subsidiaries, only those with production records in 2015 were included)
2. The sales used for calculating intensity is the sum of annual sales of both energy and electronic materials businesses. (excluding chemical business)
3. Wastewater output represents the amount of treated process water and excludes sewage water. (municipal wastewater)
4. Hazardous chemicals data is based on the substances in Korea's Toxic Chemicals Control Act.
5. The reason why reporting of substance emission volume for atmospheric and water pollutants was limited to domestic cases was because some overseas corporate bodies have a different legal measuring cycle of pollution items that it is difficult to derive the annual unit.
6. The GHG verification statement on page 78 includes the chemical business division. Therefore, the data from page 85 and 78 have some discrepancies in numbers. (As for the environmental data, if there were any changes due to the sale of Samsung SDI's Chemical Division, the data was recalculated and reported.)

#### Employee's rate of injury (Number of accidents / Total work hours × 1,000,000)

Category		2011	2012	2013	2014	2015
Company-wide		0.74	0.46	0.35	0.34	0.47
By Region	Domestic	0.10	0.19	0.13	0.22	0.32
	Overseas	1.40	0.70	0.58	0.52	0.64

#### Employee's rate of loss (Days of loss / Total work hours × 1,000,000)

Category		2011	2012	2013	2014	2015
Company-wide		22.48	18.57	18.59	17.19	13.09
By Region	Domestic	2.60	18.41	9.14	21.13	15.15
	Overseas	42.73	18.72	27.88	11.55	10.63

1. Rate of injury and rate of loss since 2014 was marked as the total for Samsung SDI and the former materials division of Cheil Industries.
2. When calculating the rate of injury and rate of loss, the number of scales was changed to one million, and previous years were included and recalculated.  
 Rate of injury = Total accidents / Total work hours × 1,000,000  
 Rate of loss = Total absences / Total work hours × 1,000,000
3. Recuperation cases in 2016 were excluded from the calculation of rate of loss for 2015.