

Environmental Data for Overseas Plants

Lion daily Necessities Chemicals (Qingdao) Co., Ltd.

As of 31 December 2019

Location: Qingdao (China)

Category		Year (ton)			
		2016	2017	2018	2019
CO ₂ emissions		1,662	1,833	1,708	1,613
Waste	Total waste generated	207	51	44	51
	Landfill waste	42	0	0	0
SOx emissions		0	0	0	0
NOx emissions		0	0	0	0
COD		2	4	3	2

Lion Corporation(Korea)Ltd

Location: Incheon (Korea)

Category		Year (ton)			
		2016	2017	2018	2019
CO ₂ emissions		13,760	15,096	14,875	12,891
Waste	Total waste generated	397	544	605	751
	Landfill waste	279	437	482	555
SOx emissions		1>	1>	1>	0
NOx emissions		0	0	0	0
COD		1	1>	1>	2

Lion Corporation (Thailand) Ltd.

Location: Sriracha (Thailand)

Category		Year (ton)			
		2016	2017	2018	2019
CO ₂ emissions		37,902	39,120	41,486	43,304
Waste	Total waste generated	2,606	2,738	3,508	3,074
	Landfill waste	2,561	2,537	2,140	319
SOx emissions		1>	1>	1	1>
NOx emissions		6	5	4	5
COD		13	8	34	35

Southern Lion Sdn. Bhd.

Location: Johor (Malaysia)

Category		Year (ton)			
		2016	2017	2018	2019
CO ₂ emissions		18,189	16,347	15,759	14,395
Waste	Total waste generated	153	152	197	140
	Landfill waste	15	42	63	28
SOx emissions		1>	1>	1>	1>
NOx emissions		1>	0	1>	0
COD		1	1	1	1

• CO₂ emissions of Lion Corporation(Korea) were calculated with the conversion factors for calorific value and CO₂ emissions of each fuel combustion and electricity in Korea until 2018.

• CO₂ emissions of other sites except Lion Corporation(Korea) and Lion Corporation(Korea) in 2019 were calculated with the conversion factors of 2011 for CO₂ emissions from electricity contained in "CO₂ emissions from fuel combustion highlight (2013)" published by International Energy Agency (IEA). CO₂ emissions from fuel combustions except electricity were calculated with the calculation method and conversion factors based on "the greenhouse gas emissions accounting and reporting manual of the Accounting and Reporting System (ver4.4) (2019)" published by the Japanese Ministry of Environment and the Ministry of Economy, Trade and Industry.