

SCOPE 1: Direct Greenhouse Gas Emissions

Company Vehicles	Indicator	tCO2e
	Gasoline	114.44
	Diesel	8,114.77
	Total	8,229.21

Other Fossil Fuels	Indicator	tCO2e
	Natural gas	5,114.16
	Fuel-Oil	70.90
	Coal	407.81
	Diesel (Heating)	593.02
	Diesel (Power Unit)	176.45
	Total	6,362.34

Air Conditioning Gases	Indicator	tCO2e
	R22	1.81
	R410A	346.19
	Total	348.00

Refrigerants	Indicator	tCO2e
	R600A	0.0008

Central Fire Extinguishing Gases	Indicator	tCO2e
	FM200 (HFC-227 EA)	341.58
	NOVEC (Pentanone)	514.40
	Total	855.98

SCOPE 2: Energy Indirect Greenhouse Gas Emissions

Electric	Indicator	tCO2e
	Electric	31,406.19

SCOPE 3: Transport Indirect Greenhouse Gas Emissions

Personnel Transportation	Indicator	tCO2e
	Diesel	1,792.30

Shipment	Indicator	tCO2e
	Shipment	775.45

Accomodation	Indicator	tCO2e
	Accomodation	971.04

Travels	Indicator	tCO2e
	Ship (Intercity)	0.17
	Metro	0.23
	Motorcycle	0.03
	Bus (Local)	14.93
	Bus (Intercity)	14.53
	Private Vehicle-Gasoline	250.89
	Private Vehicle-Diesel	181.59
	Private Vehicle-Electricity	0.01
	Private Vehicle-LPG	41.09
	Taxi	13.58
	Tram	0.02
	Train (Local)	0.06
	Train (Intercity)	3.11
	Air Travel (Overseas Business Short Distance)	1.21
	Air Travel (Overseas Business Long Distance)	8.36
	Air Travel (Overseas Economy Short Distance)	6.03
	Air Travel (Overseas-Economy Long Distance)	6.09
	Air Travel (Domestic Business Short Distance)	9.83
	Air Travel (Domestic Economy Short Distance)	542.54
Air Travel (Domestic Economy Long Distance)	0.82	
Air Travel (Domestic Promotion Short Distance)	3.42	
Total	1,098.55	

Company Vehicles Indirect Emissions (Well to Tank)	Indicator	tCO2e
	Gasoline	29.49
	Diesel	1,886.58
	Total	1,916.07

Other Fossil Fuels Indirect Emissions (Well to Tank)	Indicator	tCO2e
	Natural gas	875.38
	Fuel-Oil	15.57
	Coal	62.63
	Diesel (Heating)	137.79
	Diesel (Power Unit)	41.00
	Total	1,132.36

Personnel Transportation Indirect Emissions (Well to Tank)	Indicator	tCO2e
	Diesel	416.44

Travels Indirect Emissions (Well to Tank)	Indicator	tCO2e
	Ship (Intercity)	0.04
	Metro	0.04
	Motorcycle	0.01
	Bus (Local)	3.64
	Bus (Intercity)	3.50
	Private Vehicle-Gasoline	70.31
	Private Vehicle-Diesel	44.25
	Private Vehicle-Electricity	0.00
	Private Vehicle-LPG	4.85
	Taxi	3.32
	Tram	0.00
	Train (Local)	0.01
	Train (Intercity)	0.64
	Air Travel (Overseas Business Short Distance)	0.13
	Air Travel (Overseas Business Long Distance)	0.92
	Air Travel (Overseas Economy Short Distance)	0.66
	Air Travel (Overseas-Economy Long Distance)	0.67
	Air Travel (Domestic Business Short Distance)	1.08
	Air Travel (Domestic Economy Short Distance)	59.38
Air Travel (Domestic Economy Long Distance)	0.09	
Air Travel (Domestic Promotion Short Distance)	0.37	
Total	193.90	

SCOPE 3: Indirect Greenhouse Gas Emissions from Raw Material and Material Use

Water	Indicator	tCO2e
	Water	86.82

Paper	Indicator	tCO2e
	Paper Use	1,622.57

Waste	Indicator	tCO2e
	Domestic Waste	344.33
	Recycling Waste	14.32
	Total	358.66

SCOPE 3: Other Indirect Greenhouse Gas Emissions

Electricity Indirect Emissions	Indicator	tCO2e
	Transmission and Distribution	5,647.72
	Production (Well to Tank)	6,918.53
	Transmission and Distribution (Well to Tank)	858.55
	Total	13,424.80

Work From Home	Indicator	tCO2e
	Electric	828.67
	Natural gas	1,142.97
	Total	1,971.64