

	D [t CO ₂ e]	ESP [t CO ₂ e]	CHN [t CO ₂ e]	IND [t CO ₂ e]	Total [t CO ₂ e]
Scope 1	141.858	239.366	212.043	0.000	593.268
Scope 2	5,955.825	2,158.476	11,492.632	890.054	20,496.987
Scope 3	435,188.961	27,568.024	124.605	8,019.870	470,901.460
Biogenic emissions	4.996	0.000	0.000	0.000	4.996
	441,291.640	29,965.867	11,829.280	8,909.923	491,996.711

		D [t CO ₂ e]	ESP [t CO ₂ e]	CHN [t CO ₂ e]	IND [t CO ₂ e]	Total [t CO ₂ e]
Scope 1	Heating fuel consumption	61.398	239.366	0.009	N.A.	300.773
	Company vehicles	80.460	0.000	212.035	N.A.	292.495
Scope 2	Electricity consumption	5,955.825	2,158.476	11,492.632	890.054	20,496.987
Scope 3	Business travel	228.426	N.A.	N.A.	N.A.	228.426
	Employee commuting	1,021.222	N.A.	N.A.	N.A.	1,021.222
	Overnight stays	6.240	N.A.	N.A.	N.A.	6.240
	Paper	10.689	N.A.	N.A.	N.A.	10.689
	Waste generated in operations	1,890.223	N.A.	N.A.	N.A.	1,890.223
	Water consumption	0.426	2.787	124.604	1.656	129.473
	Purchased material and upstream transportation	38,526.071	2,454.117	N.A.	715.032	41,695.221
	Transportation of sold products	280.042	17.839	N.A.	5.197	303.079
	Use of sold products	392,766.131	25,019.271	N.A.	7,289.615	425,075.017
	Disposal of sold products	450.954	28.726	N.A.	8.370	488.050
	Fuel- and energy-related emissions	8.534	45.284	0.001	N.A.	53.819
	Biogenic emission	4.996	N.A.	N.A.	N.A.	4.996
		441,291.640	29,965.867	11,829.280	8,909.923	491,996.711

System Boundaries and Disclosures

This carbon footprint analysis includes emissions generated in operations during the year 2019. The analysis adheres to the Greenhouse Gas Protocol standards. Activity data are from 2019, except for water consumption, which was determined from 2017 and 2018 data.

The accounting approach is comprehensive and includes relevant emission sources from scope 1-3. The organizational boundary for the carbon footprint encompasses the company's entire operations during the reporting period (including primary and support activities).

Scope 1 & 2 emissions are based on robust consumption data. The results in this category are therefore highly reliable and accurate.

For scope 3 emissions, most of the activity data are based on estimated values. Product-specific emissions are based on the 2016 Product Carbon Footprints and their updates for 2020. The assessment covers LED lights products. Since emissions from product use are highly dependent on user behaviour, there are uncertainties in the emissions figures for this category.

Key Figures

Reporting period: 01.01.2019 –

31.12.2019

Working days: 250

Full-time employees: 5,071 (FTE)

Assessment

Standard: GHG Protocol

Contact person: Patrick Fortyr

Conducted by: CO₂OL, Bonn

Date of completion: 04.03.2020