

Emission inventory and CO2 footprint

Systemex Nederland BV – January - June 2018

This inventory of emissions provides information on the various energy flows within Systemex Nederland BV. Besides the inventory, this report has also calculated the CO2 footprint. This report on the CO2 footprint uses the conversion factors of the “Stichting Klimaatvriendelijk Aanbesteden & Ondernemen” (SKAO), version 3.0. This footprint describes all the items outlined in § 7.3 of standard ISO 14064-1.

Here are the scopes within Systemex:

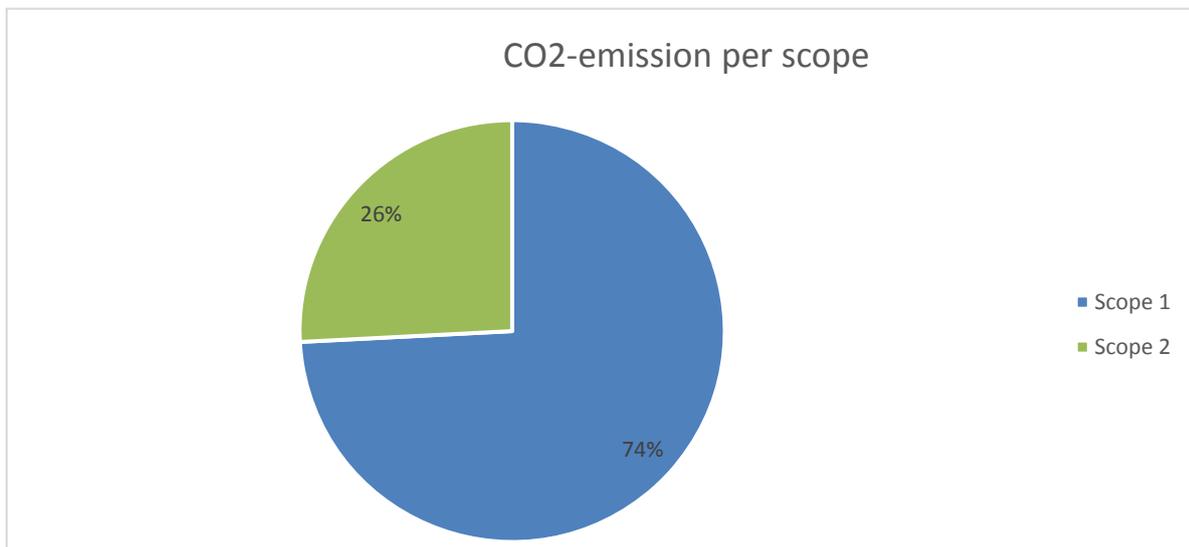
Scope 1:

- Gas for the heating of offices and outbuildings	15.124 m3	28,6 tons of CO2
- Consumption of fuel by leased cars (diesel, LPG and petrol)	62.785 liter Diesel	202,8 tons of CO2
	6.142 liter Petrol	16,8 tons of CO2
	37 liter LPG	0,1 tons of CO2

Scope 2:

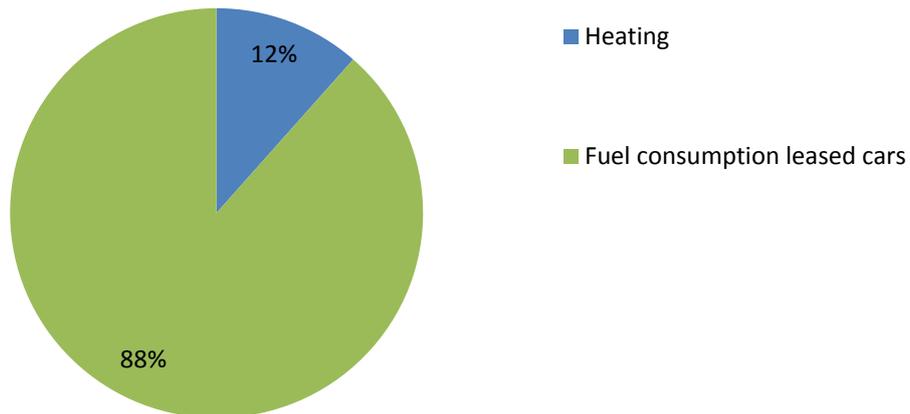
- Indirect emissions from purchased electricity (offices, outbuildings and machinery)	99.058 kWh	64,3 tons of CO2
- Number of work-related kilometers using a private car	34.574 km	7,6 tons of CO2
- Air travel for business reasons	0 km Local flights	0,0 tons of CO2
	29.931 km European flights	6,0 tons of CO2
	58.029 km International flights	8,5 tons of CO2

CO ₂ -emission per scope	Tons CO ₂	Percentage
Scope 1	248	74%
Scope 2	86	26%
Totaal	335	100%



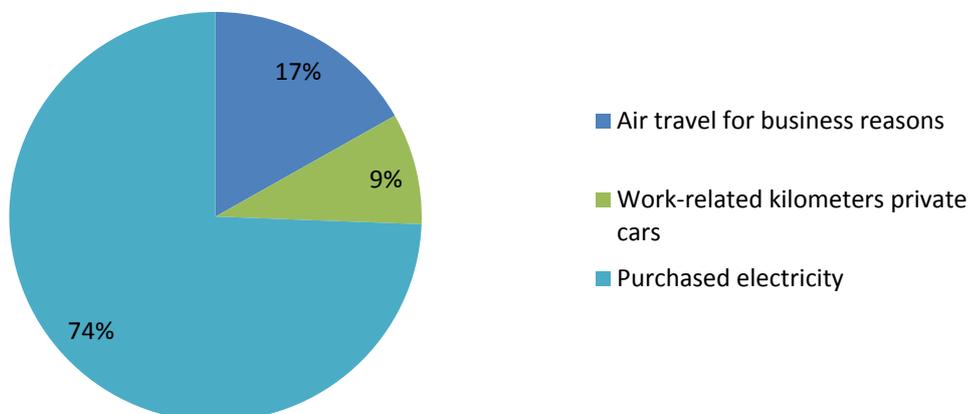
CO2-emission scope 1	Ton CO ₂	Percentage
Heating	29	12%
Machinery	0	0%
Other fuel	0	0%
Fuel consumption leased cars	220	88%
Fuel consumption private cars	0	0%
Totaal	248	100%

CO2-emission scope 1



CO2-emission scope 2	Tons CO ₂	Percentage
Air travel for business reasons	15	17%
Work-related kilometers private cars	8	9%
Purchased electricity	64	74%
Totaal	86	100%

CO2-uitstoot scope 2



Carbon footprint:

334,7 tons of CO2

As the graphs above illustrate it, the work-related kilometers with leased cars correspond to the most significant emission of CO2. Therefore Sysmex decided to participate in 2018 in the workgroup 'Mobility'. By participating in this workgroup, Sysmex will be able to discover the possibilities to reduce CO2 in work-related kilometers with leased cars.

The emissions in scope 2 are mostly the result of purchased electricity, followed by air travel for business.

The CO2 has increased for electricity and gas, the reason for this is the renovation in the first months of 2018, extra electricity and gas were used during this period.

Starting from 01 January 2016, Sysmex has green electricity by Delta, but because of absence of a suitable certificate this electricity will be seen as grey electricity and taken in this footprint as grey electricity. Starting from 01 January 2018 Sysmex will switch to green electricity by Greenchoice. Unfortunately there is no suitable certificate.

Starting from 01 January 2017 Sysmex has green gas by Greenchoice, there is no suitable evidence from the supplier and this is taken into account in this footprint.

In the Management Team meeting this will be discussed.

The planning tool is still in development.

The decision to use Skype more has been taken in the management meeting and is communicated towards the employees. In department meetings this topic will be further discussed.