

# Annual report

CO<sub>2</sub>-Performance ladder  
CO<sub>2</sub>-Footprint



Year

**2022**

Date

**23-02-2023**





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## Colophon

### Accountability

Name	Contact
Werner van de Wouw	w.van.de.wouw@hcgroep.com

### Drafted by

Naam	Function	Date
Werner van de Wouw	QHSE Manager	23-02-2023

### Verified by

Naam	Function	Date
Jos van Gelder	CFO	24-02-2023

### Agreement final responsibility

Naam	Functie	Datum
Ron van Kan	CEO	24-02-2023



# 1. Introduction

Environmental awareness and continuous improvements are increasing in our daily lives and our business operations. The social importance of using energy economically and reducing CO<sub>2</sub> emissions is enormous.

The scope applicable to the CO<sub>2</sub> annual report and the CO<sub>2</sub> management system concerns the following: "We combine products, systems, technologies and services with the aim of creating a living, housing and working environment in which human well-being is central."

HC Groep is committed to sustainability and Corporate Social Responsibility. View our full sustainability statement at the download page on our website.

This annual report focuses on HC Groep's CO<sub>2</sub> emissions. The necessary formal (technical) information for the CO<sub>2</sub> Performance Ladder is included in this report. It contains the CO<sub>2</sub> footprint, objectives and measures. The periodic preparation and updating of this report is part of the structural cycle within the energy management system introduced as part of the CO<sub>2</sub> Performance Ladder.

This report is prepared using the emission factors published on the website [www.co2emissiefactoren.nl](http://www.co2emissiefactoren.nl). This website is consulted periodically and, if necessary, emission factors are adjusted in the calculation tool.

In February 2023 HC Groep is certified on step 3 of the CO<sub>2</sub> Performance Ladder. This annual report looks back on the year 2022, reviews measures and actions taken and formulates new measures and objectives for 2023. The ultimate goal is to be climate neutral in the year 2050.





## 2. Normative references

This periodic reporting covers, the mandatory topics described in section 9.3 of the ISO 14064:2018 among other things. The table below shows the interrelationship between the various requirements and this reporting.

§ 9.3 ISO 14064:2018 report content		This report
A.	Description of the reporting organization	§ 3.1
B.	Person or entity responsible for the report	§ 3.4
C.	Reporting period covered	§ 3.6
D.	Documentation of organizational boundaries	§ 4.1
E.	Documentation of reporting boundaries, including criteria determined by the organization to define significant emissions	§ 6.4
F.	Direct GHG emissions, quantified separately for CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, NF <sub>3</sub> , SF <sub>6</sub> and other appropriate GHG groups (HFC's, PFCs, etc.) in tonnes of CO <sub>2</sub> e	H7
G.	A description of how biogenic CO <sub>2</sub> emissions and removals are treated in the GHG inventory and the relevant biogenic CO <sub>2</sub> emissions and removals quantified separately in tonnes of CO <sub>2</sub> e	H7
H.	If quantified, direct GHG removals, in tons of CO <sub>2</sub> e	H7
I.	Explanation of the exclusion of any significant GHG sources or sinks from the quantification	H7
J.	Quantified indirect GHG emissions separated by category in tonnes of CO <sub>2</sub> e	H7
K.	The historical base selected and the base-year GHG inventory	§ 9.1
L.	Explanation of any change to the base year or other historical GHG data or categorization and any recalculation of the base year or other historical GHG inventory and documentation of any limitations to comparability resulting from such recalculation	§ 9.1
M.	Reference to, or description of, quantification approaches, including reasons for their selection	§ 6.2
N.	Explanation of any change to quantification approaches previously used	§ 5.3
O.	Reference to, or documentation of, GHG emission or removal factors used	§ 5.1
P.	Description of the impact of uncertainties on the accuracy of the GHG emissions and removals data per category	§ 5.6
Q.	Uncertainty assessment description and results	§ 5.6
R.	A statement that the GHG report has been prepared in accordance with this document	H2
S.	A disclosure describing whether the GHG inventory, report or statement has been verified, including the type of verification and the level of assurance achieved	§ 3.7
T.	The GWP values used in the calculation, as well as their source. If the GWP values are not taken from the latest IPCC report, include the emission factors or the database reference used in the calculation, as well as their source	§ 5.1



## 3. Basic information

### 3.1 | Introduction organization

A healthy and comfortable indoor climate has a positive influence on people; HC Groep plays an important role as a market leader in the field of indoor climate technology. We have over 100 years of experience in indoor climate technology.

We are able to realize and maintain a healthy indoor climate for every situation. By cleverly combining our products, systems and services with the latest (building) technologies, we create a living, residential and working environment in which people's well-being is our foundation and where they can exert influence according to their needs.

Innovative, reliable, socially responsible, environmentally aware and committed. These are some of the core values that the HC Groep companies offer their clients. Spread over 8 locations in the Netherlands and 1 location abroad, more than 400 employees are involved daily in the development of specialist issues in the field of climate technology.

### 3.2 | Company information

Name main company	HC Groep
Address	Tielenstraat 19
Postal code	5145 RC
Location	Waalwijk
Phone	+31 (0)416 650 075
Number of locations in 2022	8
Number of FTE in 2022	312 (average)

For imaging purposes, the entire organizational size of the HC Groep is shown below. Additional information about the HC Groep and the various companies can also be found at [www.hcgroep.com](http://www.hcgroep.com).



\*Rosenberg will be part of HC Group from 2023 and is outside the scope of this annual report

\*\*Climaline GmbH will no longer be part of HC Group as of August 2022



### 3.3 | Size of the organization

Total CO<sub>2</sub> emissions for 2022 are 1,788.1 tons of CO<sub>2</sub>. For the complete overview of the CO<sub>2</sub> footprint, including various additional statistics, please refer to Chapter 7 of this report.

This amount of emissions places HC Groep in the 'medium-sized organization' category. Which means that HC Groep is exempt from the following requirements of the handbook, version 3.1 dated June 22, 2020: 4.C, 4.D and 5.D. According to the handbook, these requirements are therefore (fictitiously) met, which results in 90% of the maximum score to be achieved. For now, this notional score is not applicable in connection with certification on step 3 of the CO<sub>2</sub> Performance Ladder.

### 3.4 | Responsibilities

End responsibility:  
Ron van Kan | CEO

Accountability steering cycle & contact CO<sub>2</sub> Performance Ladder:  
Werner van de Wouw | QHSE Manager

### 3.5 | Starting year

The starting year is 2021.

### 3.6 | Reporting period

This report describes the period from January 1, 2022 to December 31, 2022. With the exception of the entity below:

- Climaline Ceiling Solutions B.V. (period January to August 2022);
- The formal acquisition of Coneco and Re3com took place in February 2022, therefore the CO<sub>2</sub> Footprint has been calculated for the entire year 2022.

### 3.7 | Verification

This document has been internally verified by the CFO (Mr. J. van Gelder) and approved by the CEO (Mr. R. van Kan). A verification was carried out on the figures during the external audit by Bureau Veritas in which random checks were made to see if the correct calculation methodology and the correct CO<sub>2</sub> emission factors were used in the CO<sub>2</sub> Performance Ladder.

### 3.8 | Scope emissions

A distinction is made between three scopes of emissions. The inventory of energy flows within the organization is done in accordance with scope 1 and 2 of the GHG protocol. Scope 3 emissions are not provided for within the scope of this report.

#### Scope 1

Scope 1 emissions, or executive emissions, are emissions emitted from facilities owned or controlled by the organization, such as emissions from its own gas use (in gas boilers, cogeneration plants and furnaces, for example) and emissions from its own vehicle fleet.

#### Scope 2

Scope 2 or indirect emissions, are emissions that arise from the generation of electricity, heat, cooling and power at facilities that do not belong to the company's own operations but are used by the organization, such as, for example, emissions released from the generation of electricity in power plants.

#### Scope 3

Scope 3 emissions or other indirect emissions, are emissions that arise as a result of the organization's activities but from sources not owned or managed by the organization. Examples include emissions arising from the production of purchased materials (upstream) and the use of the work, project, service or supply provided/sold by the organization (downstream).



### 3.9 | CO<sub>2</sub> reduction targets

The goal is to be climate neutral by 2050. Based on emissions in 2022, this means a 100% reduction in 27 years. In absolute numbers, this is a CO<sub>2</sub> reduction of approximately 66.000 Kg per year. As the organization grows, for example through acquisitions, we will examine whether reductions have been made on the basis of emissions per FTE. If absolute emissions increase, climate-neutral in 2025 remains the ultimate goal and the absolute reduction per year must be adjusted. This is evaluated periodically and incorporated into the annual report.

Below is a summary of actions implemented in 2022:

Insulating various non-insulated pipes and fittings	Completed
Replacing various exterior lighting fixtures from halogen to LED	Completed
Increase the proportion of electric vehicles in the fleet	Completed
Investigate possibilities for green energy or solar panels	Completed
Lower temperature in the Tielenstraat 17 production hall	Completed





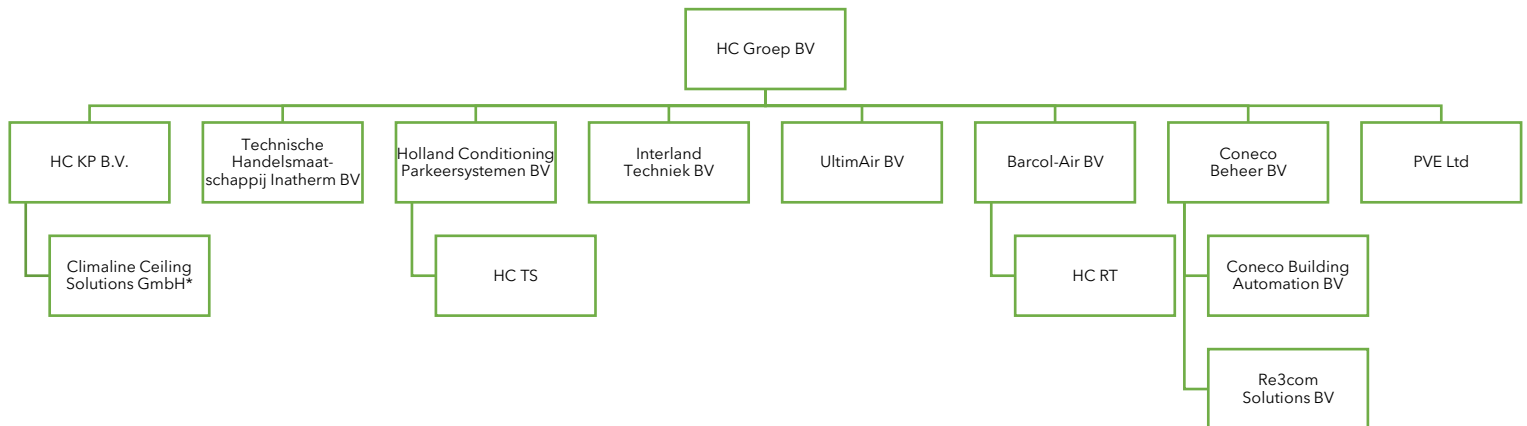
## 4. Demarcation

### 4.1 | Organizational boundary

This annual report applies to all companies under HC Groep B.V. in 2022 being:

- HC Groep B.V.
- HC KP B.V.
- Technische Handelsmaatschappij Inatherm B.V.
- Holland Conditioning Parkeersystemen B.V.
  - o HC TS (trade name)
- Interland Techniek B.V.
- UltimAir B.V.
- Barcol-Air B.V.
  - o HC RT (trade name)
- Coneco Beheer B.V.
  - o Coneco Building Automation B.V.
  - o Re3com Solutions B.V.
- PVE Ltd.
- Climaline GmbH (January to August)

Visualized view:



*\*Climaline Ceiling Solutions GmbH will no longer be part of the HC Group as of September 2022*

This "organizational boundary" is drawn up according to the GHG Protocol in accordance with Chapter 4 of the CO<sub>2</sub> performance ladder manual, version 3.1 dated June 22, 2020.



#### 4.2 | Projects with CO<sub>2</sub> award advantage

Future projects with CO<sub>2</sub> permit benefits will be included in this section. A project file of each individual project will be maintained as documented information in HC Group's CO<sub>2</sub> management system.

##### Upcoming projects

None

##### Ongoing projects

None

##### Completed projects

None



## 5. Calculation methodology

### 5.1 | Calculation methodology & emission factors

In preparing the CO<sub>2</sub> footprint, the methodology as prescribed in the handbook issued by SKAO, version 3.1 dated June 22, 2020 was adhered to. This method prescribes that flight kilometers (Business Air Travel) be counted as scope 2 for the CO<sub>2</sub> performance ladder, despite the fact that this is in principle a scope 3 emission. The direct (scope 1) and indirect (scope 2) emissions have been quantified in the footprint.

In accordance with the requirements of the handbook, the emission factors are taken from the website [www.co2emissiefactoren.nl](http://www.co2emissiefactoren.nl). The 2022 emission factors are used. The emission factors are assessed annually to see if they are still up to date; if not, they will be updated.

### 5.2 | Change calculation method

The calculation methodology is unchanged.

### 5.3 | Recalculation of reference year and historical data

When emission factors change to such an extent, this may affect previously used emission factors. If recalculation is necessary, this will be realized and justified.

### 5.4 | Exclusions

Refrigerants such as air conditioners are excluded and therefore not included in this report.

### 5.5 | CO<sub>2</sub> and/or biomass uptake

No uptake of CO<sub>2</sub> and/or biomass combustion took place within the business activities.

### 5.6 | Uncertainties

The results presented can be considered very realistic and are based on actual values. All data used to calculate the CO<sub>2</sub> footprint are based on invoices, statements, reports and/or actual numbers. As a result, the margin of uncertainty is very small.

Looking at business mileage with private cars, we chose to retrieve this from the annual HC Group employee survey. The remainder (due to not realizing 100% response rate on the employee survey) was calculated using the emission factor "fuel unknown".

Coneco & Re3com is calculated over 2022, formally they were not part of HC Group only in the month of January 2022. Actual emissions will be slightly lower than presented in this annual report.

For a small portion of the fleet (approx. 10%), the number of liters consumed was calculated based on contract mileage. This is in connection with a new type of lease contract in which a fuel surcharge is applied. In 2023 we will investigate how the actual liters can be mapped out, so that they can be incorporated in the next calculation for the year 2023.



## 6. Inventory of energy flows

### 6.1 | Emission inventory

Operational limits are divided into scope 1, 2 and 3. The classification comes from the GHG Protocol. The Stichting Klimaatvriendelijk Aanbesteden & Ondernemen (SKAO) counts 'Business Air Travel' and 'Personal Cars for Business' as scope 2 when preparing the CO<sub>2</sub> footprint. In this report, only scope 1 and scope 2 emissions are provided, in accordance with the requirements of Step 3 on the CO<sub>2</sub> Performance Ladder.

#### Scope 1. Direct CO<sub>2</sub>-emissions

Gas consumption
Fuel consumption vehicle fleet (diesel)
Fuel consumption vehicle fleet (petrol)
Fuel consumption company equipment (diesel)
Fuel consumption company assets (petrol, diesel)

#### Scope 2. Indirect CO<sub>2</sub>-emissions

Electricity consumption - gray
Electricity consumption - green
Business mileage with private cars
Air travel within Europe
Air travel outside of Europe

### 6.2 | Quantification methods

In order to quantify the CO<sub>2</sub> emissions, a tailor-made model was used for HC Group. In this model, all consumption per location can be entered. The corresponding CO<sub>2</sub> emissions are then calculated automatically.



## 7. CO<sub>2</sub>-footprint

Below is the main data of the 2022 CO<sub>2</sub> footprint. The energy assessment (additional graphs and comparison tables) can be found in Appendix 1.



CO<sub>2</sub>-Footprint | HC Groep

Year: 2022

Total CO <sub>2</sub> -emission in Kg	1.788.103	Kg
Total CO <sub>2</sub> -emission in tons	1.788,1	Tons
Number of FTE	308	FTE
CO <sub>2</sub> -emission per FTE	5.803,6	Kg

### Categories

Electricity	487.102	Kg
Heating	208.656	Kg
Business travel (including commuting)	1.073.642	Kg
Air travel	18.703	Kg

### Ratio per scope

Scope 1	50	%
Scope 2	50	%



## 8. Explanation of CO<sub>2</sub> footprint calculation

### 8.1 | Explanation

Below is an explanation of where the information comes from for each component. The underlying information is documented in the CO<sub>2</sub> management system under 'documented information'.

#### Fuel - Diesel

An overview of the total consumption for 2022 of the various companies has been requested.

#### Fuel - Gasoline

An overview of the total diesel consumption for 2022 of the various companies has been requested.

#### Use of other fuels

Besides electric vehicles, not applicable.

#### Heating - Gas

An annual statement was requested from the suppliers for the various sites.

#### Electricity use

All invoices and statements for the year 2022 have been saved as documented information.

#### Additional information

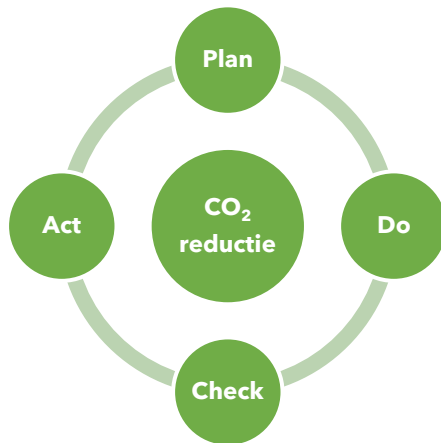
All other relevant information related to the calculation of the CO<sub>2</sub> footprint has been stored as documented information in the CO<sub>2</sub> management system of the HC Group under the section source data.



## 9. CO<sub>2</sub> reduction

The purpose of the CO<sub>2</sub> footprint is to map various energy flows and, based on this, determine the total CO<sub>2</sub> emissions. This report provides this insight.

The next step is to see how HC Group's CO<sub>2</sub> emissions can be reduced. In order to monitor the progress of this process, a CO<sub>2</sub> management system has been set up. This system is maintained accurately with the aim of achieving CO<sub>2</sub> reduction targets. Here the PDCA steering cycle is applied within the framework of continuous improvement. Internal audits are also carried out and CO<sub>2</sub> reduction is a fixed part of the annual management review.



### 9.1 | Historical data

The overview below will be applied and adjusted in future annual reports.

	Starting year 2021	2022
Total emissions in tons of CO <sub>2</sub>	1.425,5	1,788,1
Number of FTE	224	312
CO <sub>2</sub> emission per FTE	6.377	5.731
Turnover percentage compared to starting year	100%	131,1%

### 9.2 | Emission reductions achieved

In absolute numbers, CO<sub>2</sub> emissions increased in connection with the acquisition of Coneco & Re3com. In terms of emissions per FTE, a reduction of over 9% was achieved.

### 9.3 | Planned actions in 2023

The following actions are planned for 2023 in the context of CO<sub>2</sub> reduction:

- Transition to green electricity (01-01-2023, responsible: Jos van Gelder) for the benefit of six electricity connections spread over several sites (Tielstraat 17 & 19 in Waalwijk and Cantekoogweg 10-12 in Purmerend);
- The replacement of fluorescent lighting (Q1 2023, responsible: Eugene Croin) with LED for the benefit of the premises of Coneco at the Van Coulsterweg 2 in Alblasterdam;
- Excluding diesel cars (01-01-2023, responsible: Ron van Kan) for new business lease contracts from 01-01-2023.



### Estimated CO<sub>2</sub> reduction from planned actions

#### Transition to green electricity

This concerns the transition to green electricity for six connections, distributed over three sites (two in Waalwijk and one in Purmerend). Hereby the emission factor goes from 0.523 (source: SKAO list of emission factors 2022) to zero. The electricity consumption of these six connections in 2022 is approximately 645,000 kWh, resulting in an estimated reduction of approximately 337,000 Kg CO<sub>2</sub> in 2023.

#### LED lighting of the Coneco office building in Alblasserdam

The electricity consumption of the lighting on the office floors and in the canteen concerns approx. 70,000 kWh in 2022, this is a realistic estimate. As a rule, an LED fixture consumes about 50% less than a fluorescent fixture. A 50% reduction results in a saving of approx. 35,000 kWh, being approx. 18,000 Kg CO<sub>2</sub>.







## 11. Conclusion and follow-up

HC Groep has set a clear goal of being climate neutral by 2050. Based on the CO<sub>2</sub> footprint, this involves a reduction of 66,000 Kg CO<sub>2</sub> per year. The measures taken in 2023 are expected to bring about a higher reduction. However, the next annual report will include the Rosenberg emissions. The absolute reduction target will be adjusted, climate neutrality in 2025 remains the final goal.

The next report will appear no later than the first quarter of 2024 and will describe the year 2023.

HC Groep | CO<sub>2</sub> performance ladder report 2022  
Period 1 January 2022 to 31 December 2022.

Ron van Kan | CEO  
Jos van Gelder | CFO

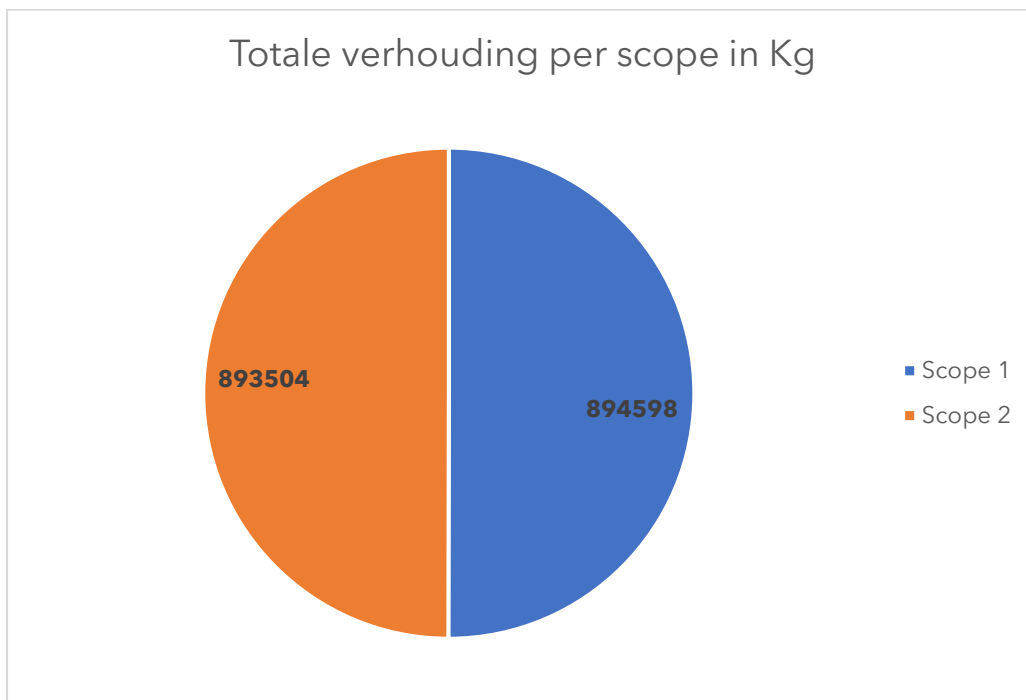
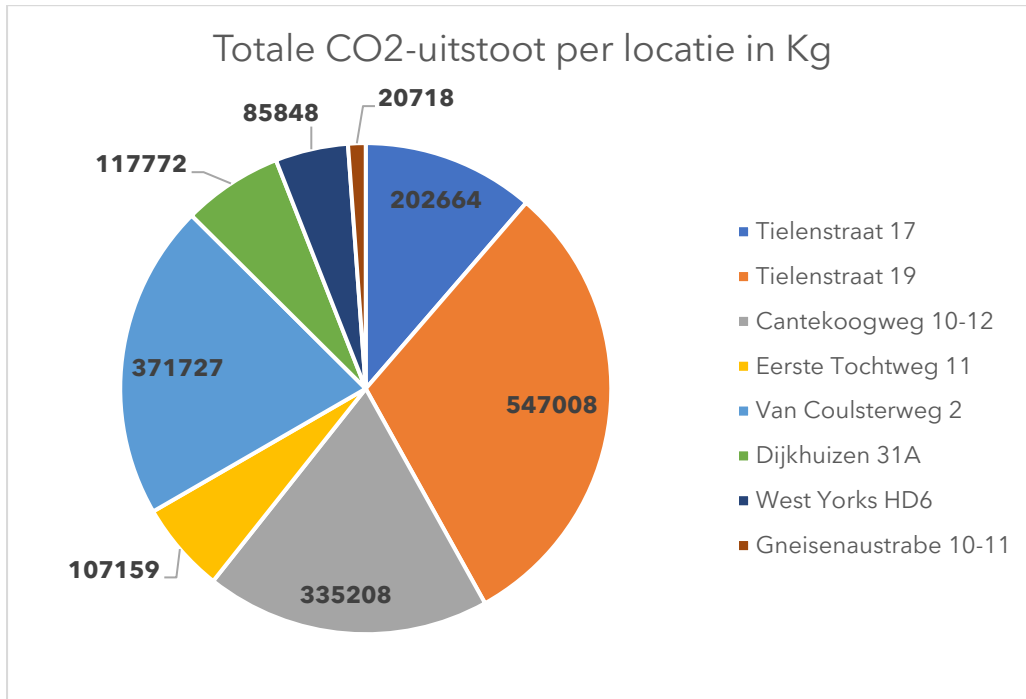




## 12. Attachments

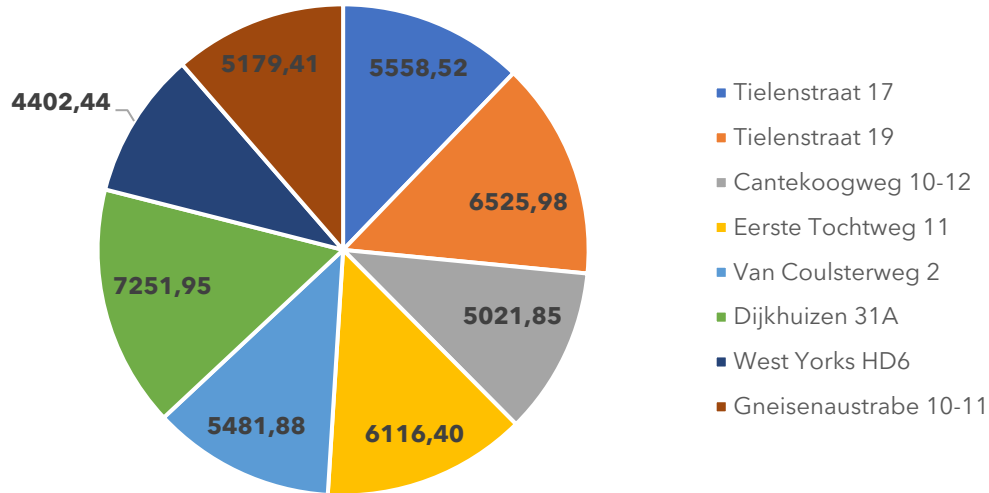


### Attachment 1. | Energy assessment CO<sub>2</sub>-footprint

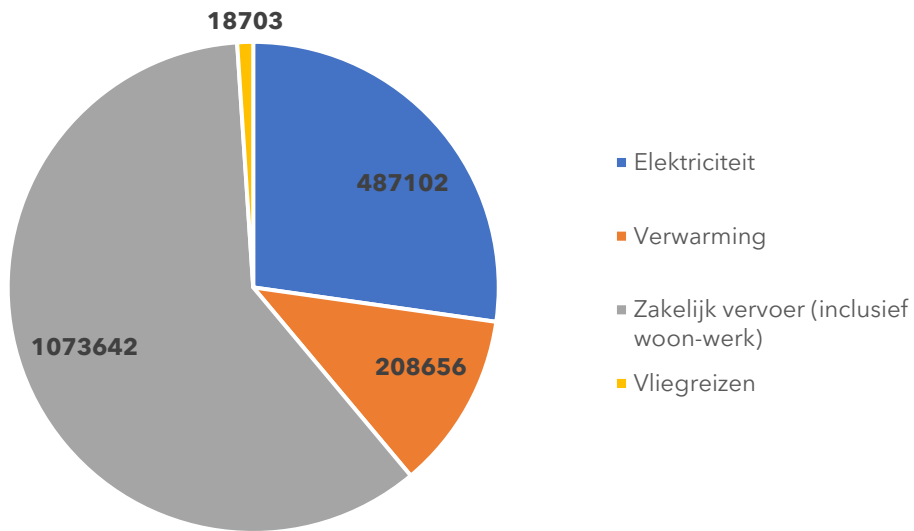




Totale uitstoot per FTE in Kg

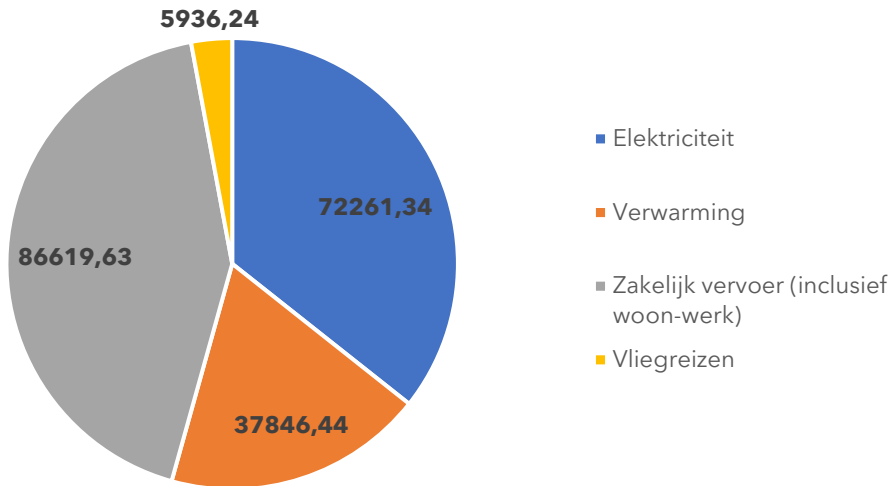


Totale uitstoot per categorie in Kg

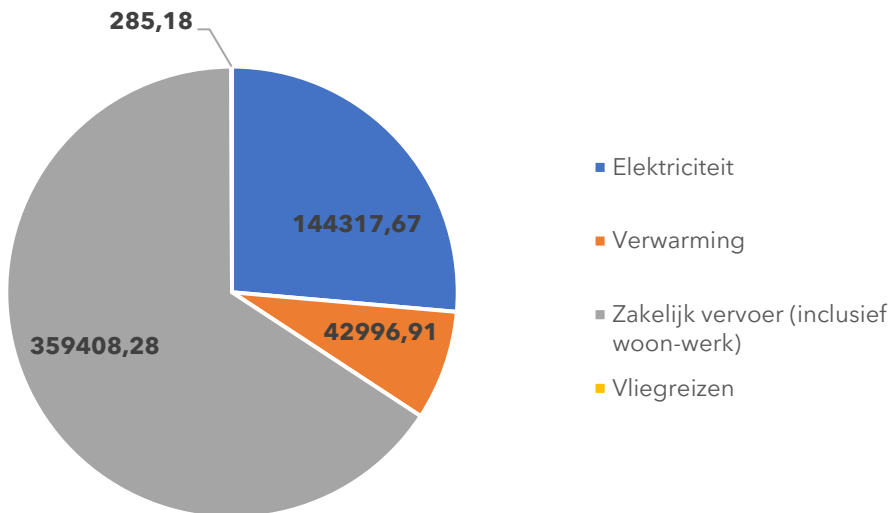




### Uitstoot per categorie Tielenstraat 17

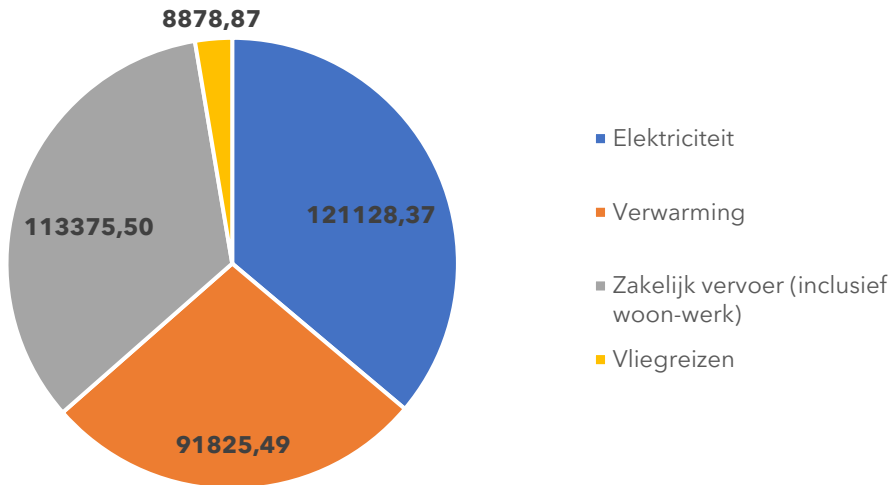


### Uitstoot per categorie Tielenstraat 19





### Uitstoot per categorie Cantekoogweg 10-12



### Uitstoot per categorie Eerste Tochtweg 11

