



EMISSION INVENTORY

2022

*Good climate,
better performance!*

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1 Introduction

Since 1 December 2009, ProRail has been using the CO₂ Performance Ladder it has developed itself when selecting its suppliers. With this CO₂ Performance Ladder, ProRail tries to challenge and encourage its suppliers to know and reduce their own CO₂ production. The more a company makes an effort to reduce CO₂, the more chance it has to award a contract. Since 16 March 2011, the Climate-Friendly Procurement & Entrepreneurship Foundation has taken over the management and ownership of the CO₂ Performance Ladder from ProRail. Nijburg Products BV would like to commit to the CO₂ Performance Ladder, because Nijburg Industrie Groep attaches great importance to corporate social responsibility.

The CO₂ performance ladder has 4 angles:

- **A.** Insight into your own CO₂ emissions.
- **B.** CO₂ reduction (The ambitions with regard to reduction of the company).
- **C.** Transparency (The way the company communicates to the outside world).
- **D.** Participation in initiatives to reduce CO₂.

These 4 perspectives are divided into 5 different levels, these are levels 1 to 5.

This report is an inventory of the total amount of greenhouse gas emissions, also known as GHG emissions (Green House Gas Protocol). This report also provides insight into the origin of GHG emissions, including the distribution into direct and indirect GHG emissions.

The reporting period of this emission inventory in January to December 2022 and has been carried out in accordance with the requirements of NEN 14064-1. The reference year of Nijburg Products BV is 2019. In case of methodical changes to the conversion factors for the CO₂ Performance Ladder, the emission inventory of the reference year is also adjusted. This does not apply for 2022. The base year emissions are shown below:

Reference year	2019
Scope 1	312,95 tons CO ₂
Scope 2	541,85 tons CO ₂

2 Organization

2.1 Organization description

Nijburg Industry Group is a Dutch family business with its own production facility, specialized in producing, supplying and installing total solutions for a healthy and comfortable indoor climate. We do this for parties from the entire construction chain, from client & consultant to installer & building management nationally and internationally.

The **sales division** of the Nijburg Industry Group consists of the companies Solid Air Climate Solutions, Solid Air International and Velu Klimaattechnische Groothandel. With these companies we supply a complete range of air technical components for residential, utility and shipbuilding and thus the installation market. By giving clear advice to the front, fast delivery through our webshop and A good service afterwards, we are a much sought-after partner for the entire construction chain. From client & consultant to installer & building management, nationally and internationally.

The **Installation division** of the Nijburg Industry Group consists of the companies Nijburg Klimaattechniek, Solid Air Climate Ceilings and Hanze Luchttechniek. These companies specialize in engineering, project preparation, supervising, assembling and adjusting complete air duct systems and climate ceilings for non-residential construction, industry, retail and data centers. This applies to both new construction and renovation. Thanks to the expertise of our colleagues and the quality of our projects, we have grown into an internationally operating organization. In order to guarantee processes and to guarantee the desired quality, all 3 companies member of the LUKA, Nijburg Klimaattechniek is ISO 9001 certified and Hanze Luchttechniek has the VCA* certificate and Nijburg Klimaattechniek and Solid Air Climate Ceilings the VCA** certificate.

The **Production division** consists of Nijburg Products, our own production facility. Nijburg Products is the beating heart of the Nijburg Industry Group. With more than 100 colleagues, 4 production halls and 3 logistics halls that together cover approximately 20,000 m², Nijburg Products is the largest company of the Nijburg Industry Group. By producing and/or assembling quality products efficiently, flexibly and LEAN, Nijburg Products is able to meet the needs of its sister companies Solid Air Climate Solutions, Velu Klimaattechnische Groothandel, Nijburg Klimaattechniek, Solid Air Climate Ceilings and Hanze Luchttechniek. Nijburg Products not only produces the air ducts and air technical components for our customers. All our customers are also supplied from the factory, whether it concerns standard products, specials or custom work. In this way we guarantee the volume and flexibility of our company.

Source: www.nijburg.nl

2.2 Energy policy

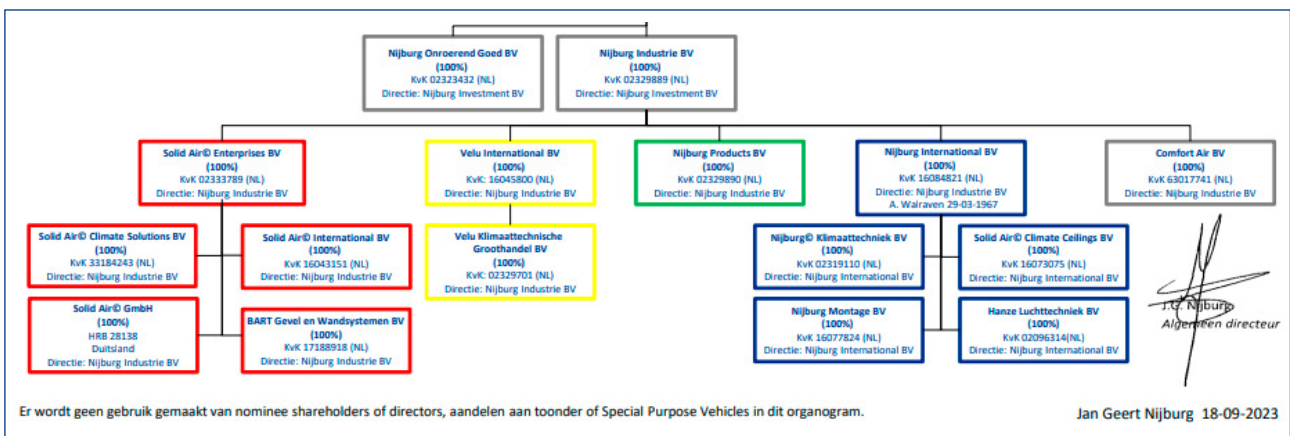
The energy policy of Nijburg Products BV is aimed at ensuring that activities that we do for our customers on a daily basis are carried out in an environmentally friendly, effective, efficient and economical manner. The starting point is that the requirements agreed with the customer and his expectations can be met at any time. During our work, we want to waste, as far as possible, no energy unnecessarily and reduce CO₂ emissions as much as possible.

2.3 CO₂ Responsible

The person responsible for the CO₂ Performance Ladder is our KAM Coordinator Johan Löhr.

2.4 Organizational boundaries

In the figure below, the organization chart of Nijburg Industry Group displayed:



To determine the organizational boundary, the AC analysis in accordance with the lateral method is used. An overview of all suppliers is arranged by purchase turnover in descending order. This shows that there are no C suppliers among the A suppliers, which represent 80 % of the purchase turnover. This means that the organisational boundary is limited to Nijburg Products BV.

2.5 Determination small, medium and large organization

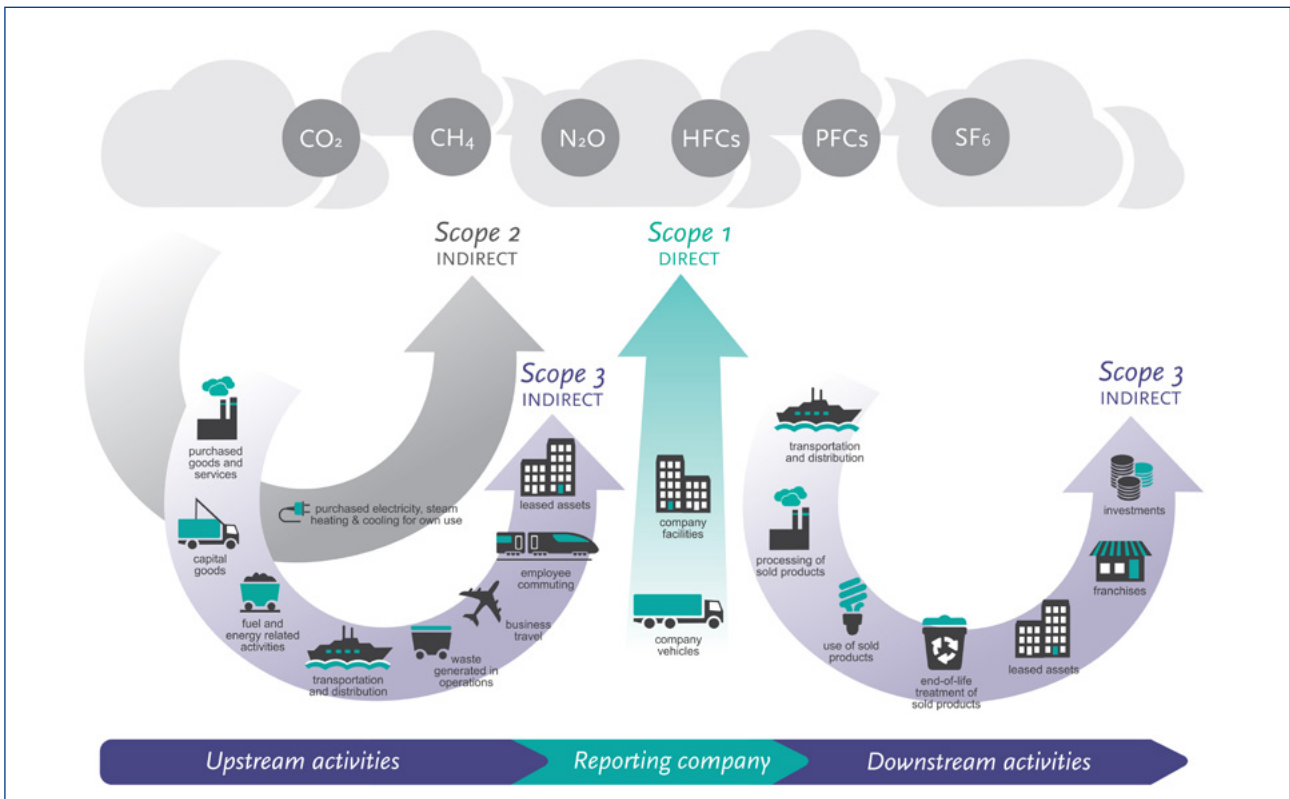
An important part of the CO₂ Performance Ladder is the determination of small, medium and large organizations, see table. This determination is made for Nijburg Products BV on the basis of the total emissions of GHG emissions from scope 1 and 2.

The total GHG emissions of Nijburg Products BV over 2022, 533.41 tonnes of CO₂, of which 533.41 tons of CO₂ for the offices. This stipulates that Nijburg Products BV will receive the following provision for the year 2022: medium-sized organization.

	Services ⁷	Works/deliveries
Small organization (K)	Total CO ₂ emissions amount to a maximum of (≤) 500 tonnes per year.	Total CO ₂ emissions from the offices and business premises amount to a maximum of (≤) 500 tons per year, and the total CO ₂ emissions of all construction sites and production sites amount to a maximum of (≤) 2,000 tons per year.
Medium-sized organization (M)	Total CO ₂ emissions amount to a maximum of (≤) 2,500 tons per year.	Total CO ₂ emissions from the offices and business premises amount to a maximum of (≤) 2,500 tonnes per year, and the total CO ₂ emissions of all construction sites and production sites amount to a maximum of (≤) 10,000 tonnes per year.
Large organization (G)	Total CO ₂ emissions amount to a maximum of (>) 2,500 tons per year.	Miscellaneous.

3 Operational boundaries

In order to clearly define the scope, the scope classification of the Green House Gas Protocol was used (GHG protocol). The figure below shows a scope diagram as an example.



In accordance with the GHG protocol, a distinction is made between 3 sources of emissions (scopes). These 3 sources can be divided into 2 categories, these are direct and indirect emissions.

- Scope 1:** The direct emissions. The gases and fuels used by its own organization, for example from machines and fleets.
- Scope 2:** Indirect emissions. These are the emissions that are caused by the generation of electricity and that are used by the own company. According to the CO₂ performance ladder, “the own car used for business purposes” and “the business plane kilometers” (business travel) also fall under this scope. The GHG protocol attributes these two to scope 3.

- Scope 3:** Other indirect emissions. These emissions are a result of sources that are not owned by the company itself. This includes, for example, traffic, production of purchased materials and transport of the purchased materials.

For Nijburg Products BV these scopes are filled in as follows:

Scope 1: The heating of the office (natural gas). The consumption of acetylene and mixed gas filling.

Scope 2: Electricity consumption in the office and workshop.

4 Direct and indirect GHG emissions

This chapter describes the direct and indirect GHG emissions of Nijburg Products BV.

4.1 Footprint 2022-total

FIGURES CO ₂ EMISSIONS 2021 total					
Scope	Offices (incl. business premises)	Consumption	Unit	Conv.	Tons of CO ₂
1	Gas	98.566,00	Nm ³	2,085	205,51
1	Acetylene	0,00	litre	5,639	0,00
1	Mixed gas filling	280,60	litre	0,28	0,08
2	Electricity (grey)	626.803,00	kWh	0,523	327,82

Turnover (million)	25,87
FTE	93,81

Scope	Totals	Tons of CO ₂	%
1	Gas	205,51	38,53
1	Acetylene	0,00	0,00
1	Mixed gas filling	0,08	0,01
2	Electricity (grey)	327,82	61,46
			100,00

Total scope 1	205,59	38,54
Total scope 2	327,82	61,46
Total scope 1 + 2	533,41	
Total offices	533,41	100,00

Scope	Totals	Tons of CO ₂
1	Emissions/FTE	2,19
1	Emissions/Turnover	7,95
2	Emissions/FTE	3,49
2	Emissions/Turnover	12,67
1 and 2	Emissions/FTE	5,69
1 and 2	Emissions/Turnover	20,62

4.2 Combustion of biomass

The combustion of biomass did not take place within scope 1 and 2 in 2022.

4.3 GHG removal

Greenhouse gas removal by means of binding CO₂ did not take place at Nijburg Products BV in 2022.

4.4 Exceptions

The use of argon is transparent, but not included in this footprint. The reason for not taking argon is because of the minimum amount used. The CO₂ emissions of argon have no effect on the total CO₂ emissions of Nijburg Products BV.

4.5 Methods

The consumption of natural gas and electricity have been taken over from the supplier's website.

This emission inventory has not been verified by a CI.

4.6 Emission factors

For the calculation of the CO₂ emissions of Nijburg Products BV uses emission factors from the website www.co2emissiefactoren.nl. The final check of the conversion factors is the date of this emission inventory. The emission inventory has not been verified by a CI in 2022.

4.7 Uncertainties

All results should always be interpreted with a certain margin of uncertainty. However, based on the data as shown in this report, it can be said that these margins are small. When drawing up the emission inventory, we assume an uncertainty that is less than 5 % of the total CO₂ emissions of Nijburg Products BV.

5 Relationship matrix NEN-ISO 14064-1

Par. 9.3.1	Description of the standard paragraph	Chapter emission inventory
A	Description of reporting organization.	H2 par 2.1
B	Responsible person(s).	H2 par 2.3
C	Period over which organization reports.	H1
D	Documentation of organizational boundaries.	H2 par 2.4
E	Documentation of said organizational boundaries and associated criteria.	H2 par 2.4
F	Direct GHG emissions separated into tonnes of CO ₂ .	H4 par 4.1
G	Beschrijving van CO ₂ uitstoot door biomassa.	H4 par 4.2
H	GHG removals in tonnes of CO ₂ .	H4 par 4.3
I	Explanation of omission of CO ₂ sources and sinks.	H4 par 4.4
J	Indirect GHG emissions separated into tonnes of CO ₂ .	H4 par 4.1
K	GHG emission inventory base year.	H1
L	Statement of change and subsequent calculations of base year.	H1
M	Reference/description incl. reason for chosen calculation method.	H4 par 4.5
N	Explanation of changes in chosen calculation method compared to other years.	H4 par 4.7
O	Reference/documentation of GHG factors used and deletion data.	H4 par 4.6
P	Description impact of uncertainties on accuracy GHG emissions and disposal dates.	H4 par 4.7
Q	Uncertainties of assessment descriptions and outcomes.	H4 par 4.7
R	Note that emission inventory is made in compliance with NEN-EN-ISO 14064-1:2019.	H5
S	Note that emission inventory has been verified incl. Type of authentication.	H4 par 4.6
T	the GWP values used in the calculation, as well as their source.	-



Nijburg Products BV

Adres De Vosholen 116, 9611 TG Sappemeer

Tel. (+31) 598 36 12 36

Website www.nijburg.nl

Directie J.G. Nijburg

E-mail contact@nijburg.nl