CO₂ **Performance Ladder Progress Report**

VenhoevenCS

architecture+urbanism

Year	2022		
Period	Q1 — Q2		

GO₂ management system

Continuous improvement of insight and CO2 reduction measures regarding:

- 1. Our operations
- 2. Our projects
- 3. In our value chain

Additional requirements for

- 1. Communication letting others know what you do
- 2. Participation influencing

Scope Definitions

Scope 1Direct emissions inside the company
use of gas for heating the office

Scope 2Indirect emissions inside the companythrough purchased energy e.g. electricity use in the office and mobility for business activities

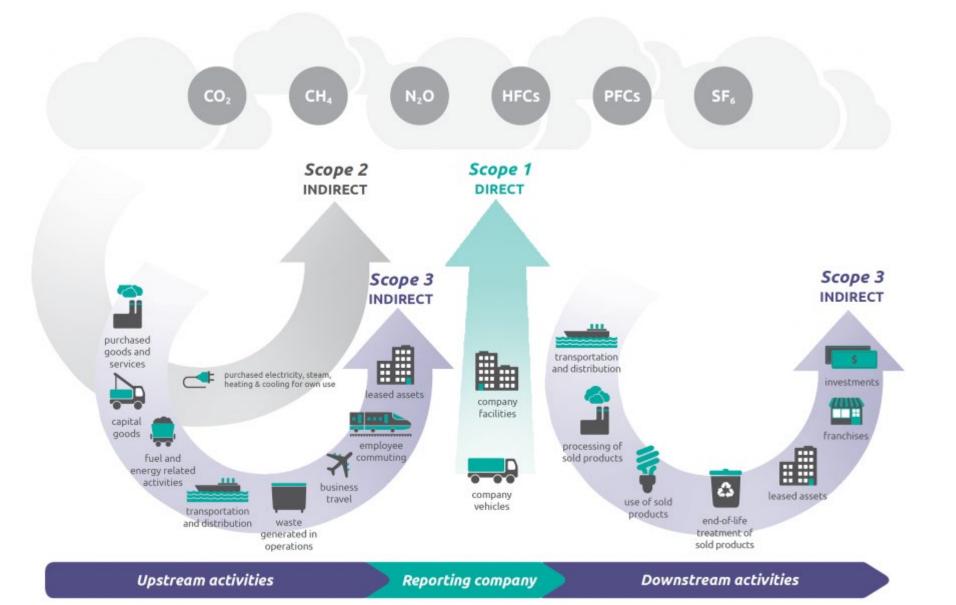
Scope 3 Indirect emissions in the value chain

Upstreamcommuter mobility, use of paper, mobility by suppliers (e.g. cleaning, waste, all kinds of deliveries) andDownstreamemissions made by subcontractors

Scope 3 Value chain analysis and initiative

Analysis the analysis of CO₂ emissions in one of the value chains we are active in
 Initiative a planned approach to realize a pre-determined reduction objective in the values chain on the basis of the analysis, together with the partners in the value chain

Scope Definitions



Value chain initiative

In 2020, we created a new chain analysis and set goals for the next 6 years.

Shadow costs of building elements

We have the ambition to design with shadow costs. We would like to show our clients and project partners the CO_2 repercussions of choices that are made regarding the material of building elements.

2020	2021	2022	2023	2024	2025	
0%	25%	50%	50%	75%	90%	of projects*)
1	1	1	2	2	3	primary building elements**)

*) With a project, we mean a Dutch architectural project that will be built (no studies or urban planning)

**) With primary building elements, we mean supporting structure, floors, walls, roofs, foundation, installations, finishings, etc.



Our CO2 reduction goals

A. Scope 1 + 2: General CO₂ Reduction

20% reduction of emissions for scope 1 & 2 (operations and projects) in 2025 as compared to 2015, calculated as kg CO2 per FTE

B. Sub objective: gas consumption

VenhoevenCS will reduce their emissions caused by gas consumption with 60% per FTE in 2020 compared to 2015

C. Sub objective: Business travel

VenhoevenCS will reduce their business travel with 25% per FTE in 2025 compared to 2015

D. Scope 3

In 2025, 90% of our Dutch building projects will have a paragraph in the design text stating the shadow costs of 3 primary building elements, including a clarification of CO2 reduction possibilities **This is our Environmental Impact Tool!**

Progress General Reduction

A. General Reduction CO_2 of 20% (2015-2025)

2015 2016 2017 2018 2019 2020 2021 2022 2025

 Goal
 4130
 4047
 3965
 3882
 3800
 3717
 3634
 3552
 3304
 kg CO₂ per FTE

 Realized
 4130
 2528
 1953
 1930
 2438
 1037
 327
 522 ...
 kg CO₂ per FTE

NB prognoses based on calculation Q1 and Q2 and then extrapolated for the whole year

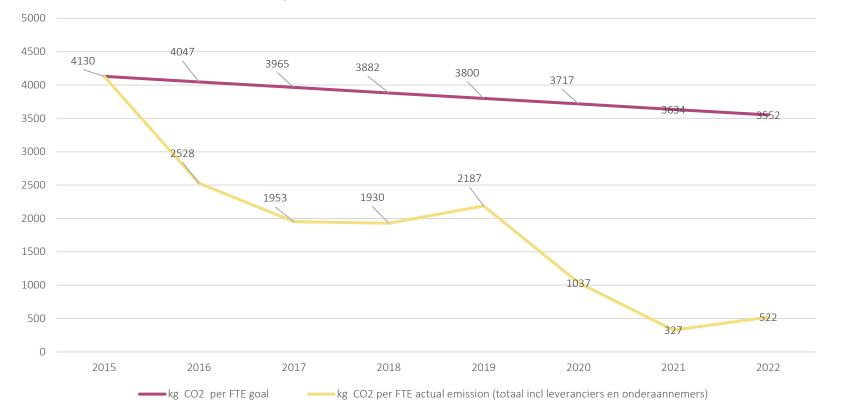
Dutch benchmarks vary widely per type of organization. An organization that works

- mostly local and whose employees do not visit many relations, averages 1.000 kgCO₂ per FTE
- national and whose employees visit relations regularly, averages 4.000 kgCO₂ per FTE

• internationally and whose employees visit international relations regularly, or has a branch abroad, averages 12.000 kgCO₂ per FTE Source: Climate Neutral Group

Progress General Reduction

Progress annual CO2 reduction VenhoevenCS





2020 Covid-19

2021

Covid-19 AND 37% increase FTE AND 65% increase m²

2022

Decrease of FTE No Covid-19

Progress gas-use reduction

B. Sub objective: gas consumption

	2015	2016	2017	2018	2019	2020	2021	2022	
Goal	153,6	135,2	116,7	98,30	79,87	61,40			kg CO ₂ per FTE
Realized	153,6	86,80	71,9	72,88	74,80	72,34	35,98	54,88	kg CO ₂ per FTE

NB prognoses based on calculation Q1 and Q2 and then extrapolated for the whole year

We switched to green (forest compensated) gas in May 2017

Progress Business Travel

C. Sub objective: Business travel

VenhoevenCS will reduce their business travel with 25% per FTE in 2025 compared to 2015.

Reduction CO₂ 25% through travel (excl. flights) in our operations/projects (2015-2025)

2015 2016 2017 2018 2019 2020 2022 2025 2021 Goal 570 555,8 541,5 527,5 513 499 484,5 470,25 427,5 kg CO₂ per FTE 325,3 283,6 529,9 Realized 570 488,5 466,1 157,89 208,5 ... kg CO₂ per FTE

NB prognoses based on calculation Q1 and Q2 and then extrapolated for the whole year

Progress Business Travel



2019 Increase!

2020 Covid-19 No flights!

2021

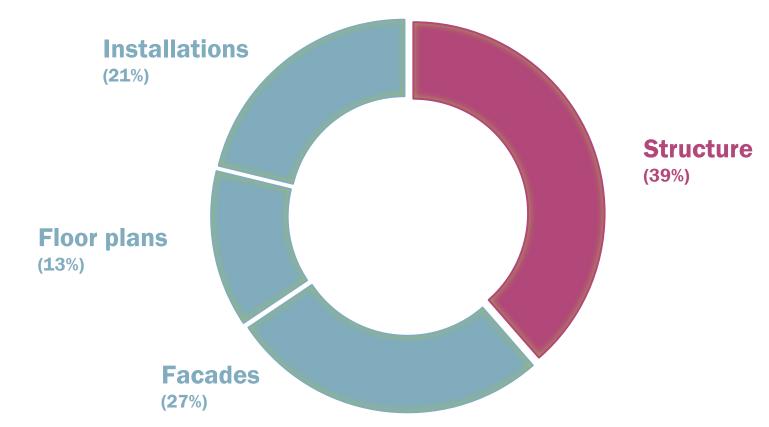
Covid-19 No flights! Most public now has zero CO2-emission

2022

No Covid-19

D. Scope 3

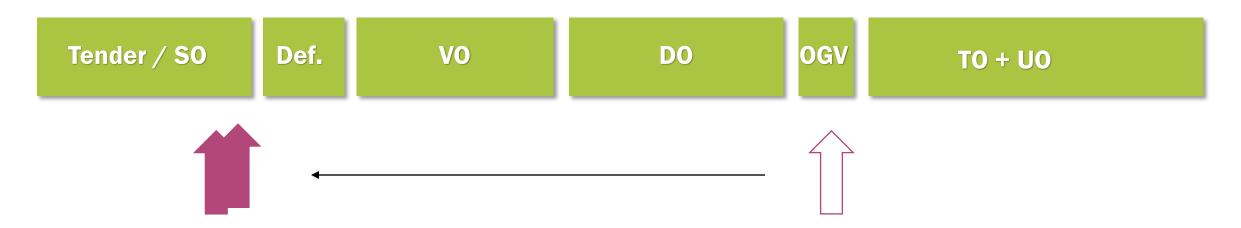
The goal for 2021/2022 was to have a template for 1 building element ready. But we had a delay in the implementation of the Environmental Impact Tool because we decided to work together with IMd for the further development of the tool.



D. Scope 3



D. Scope 3



This is when the calculation of the environmental impact of the decision on the structure should take place

D. Scope 3

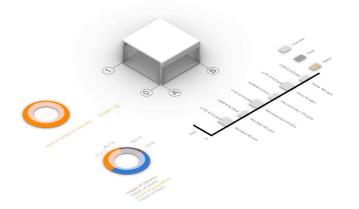
There is a working Beta-version of the Structural Embodied Carbon Calculator V 1.0

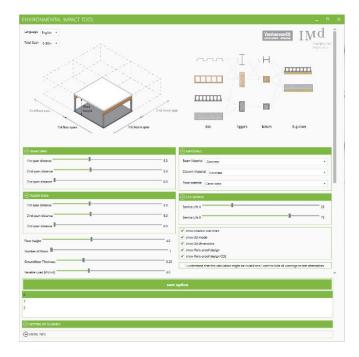
Also known as: The Environmental Impact tool

The tool can now be used for internal use – in our projects and with our clients

In 2023 we are focusing on implementing the tool in the office.

Besides that, we are looking into what else to do with the tool: Perhaps we make the tool available for free, perhaps we will make it into a marketable and sellable product, further develop the tool for facades, etc.





Total footprint 2022

Suppliers / Transport of goods Subcontractors Heating Paper use Mobility 38% 42%

CO₂ FOOTPRINT 2022 VENHOEVENCS

Prognose 2022:

31.841 kg [2021: 18.690] [2020: 44.577]



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Thank you for your participation!

Colophon

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