

CO₂ Performance Ladder Progress Report

VenhoevenCS
architecture+urbanism

Year
Period

2021
Q1 – Q2

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CO₂ management system

Continuous improvement of insight and CO2 reduction measures regarding:

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

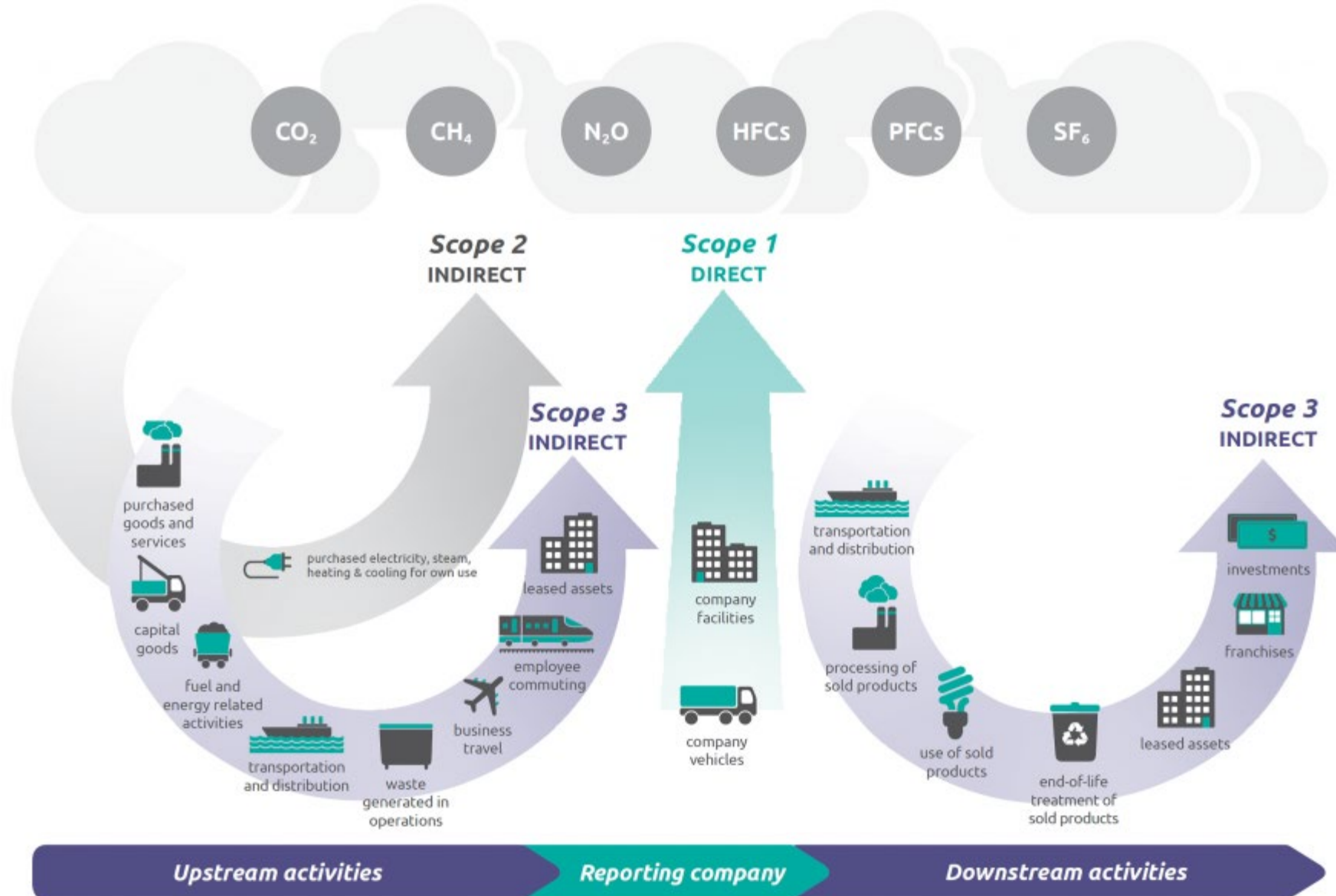
Additional requirements for

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

Scope Definitions

- | | |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scope 1 | Direct emissions inside the company
use of gas for heating the office |
| Scope 2 | Indirect emissions inside the company
through purchased energy e.g. electricity use in the office and mobility for business activities |
| Scope 3
<i>Upstream</i>
<i>Downstream</i> | Indirect emissions in the value chain
commuter mobility, use of paper, mobility by suppliers (e.g. cleaning, waste, all kinds of deliveries) and emissions made by subcontractors |
| Scope 3
<i>Analysis</i>
<i>Initiative</i> | Value chain analysis and initiative
the analysis of CO ₂ emissions in one of the value chains we are active in
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

This year, we have 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 CO₂ 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.

Goals

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
NEW GOAL NEEDS TO BE SET

C. Sub objective: Business travel

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

Goals

Our CO2 reduction goals

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

* *) *Structure, floors, walls, roofs, foundation, installations, finishes, etc.*

Progress General Reduction

A. General Reduction CO₂ of 20% (2015-2025)

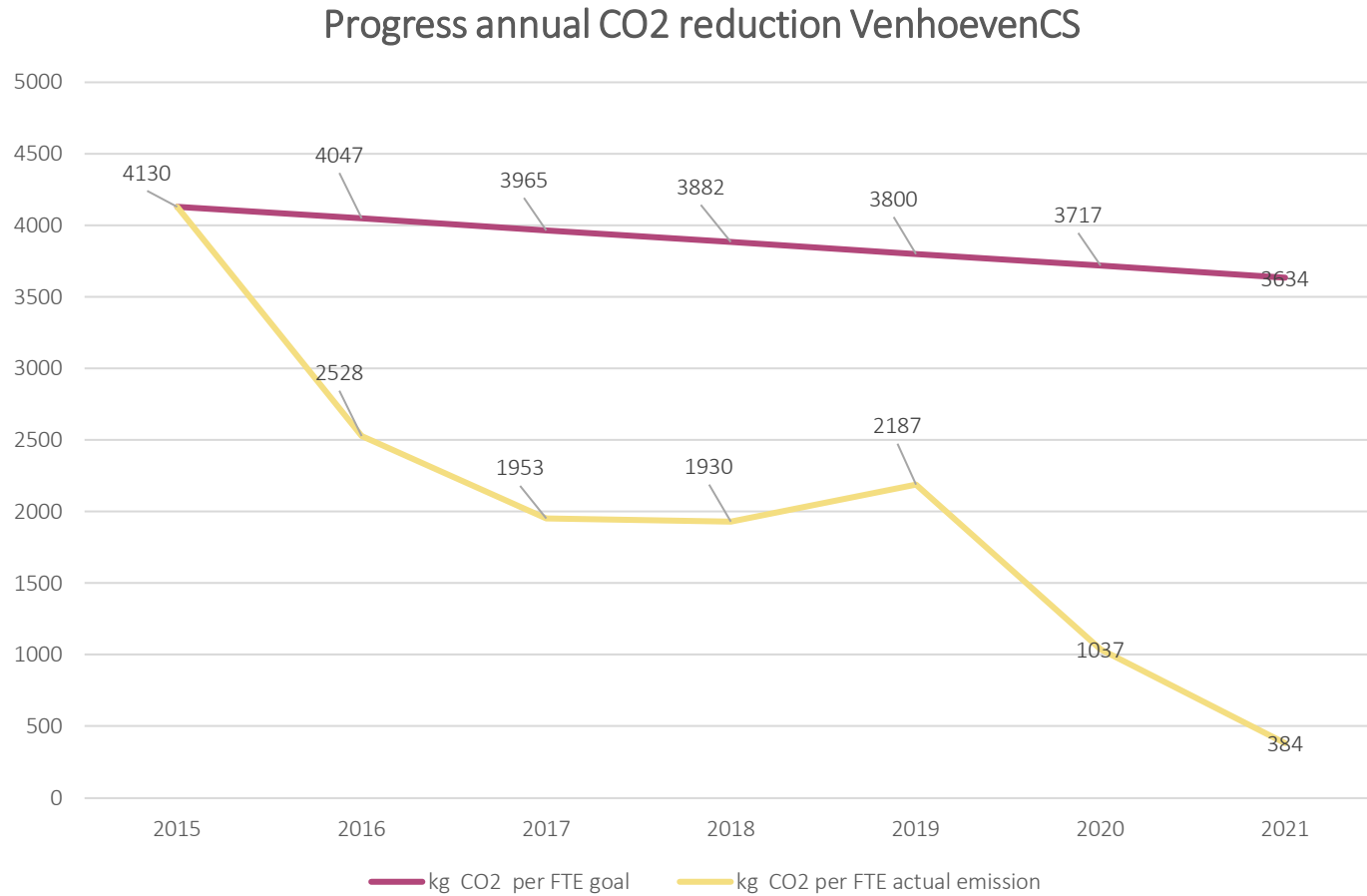
	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2025</i>	
Goal	4130	4047	3965	3882	3800	3717	3634	3304	kg CO ₂ per FTE
Realized	4130	2528	1953	1930	2438	1037	384	...	kg CO ₂ per FTE

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

Progress General Reduction



Progress gas-use reduction

B. Sub objective: gas consumption

It is almost impossible to reduce the use of gas more. Do we set a new goal: keep the gas use steady? Gas use will also go up because of new office space.

	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	
Goal	153,6	135,2	116,7	98,30	79,87	61,40	New goal...	kg CO ₂ per FTE
Realized	153,6	86,80	71,9	72,88	74,80	72,34	72,28	kg CO ₂ per FTE

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

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

Progress Business Travel

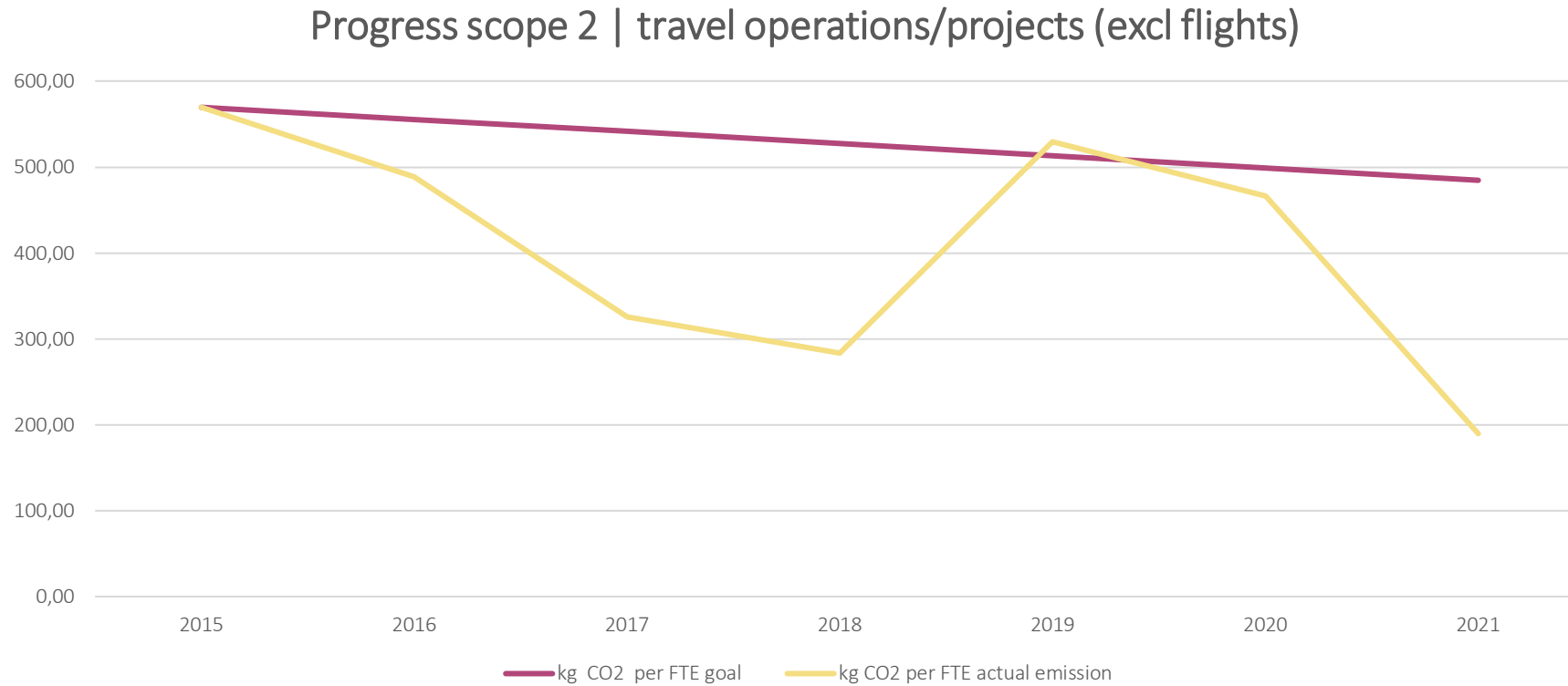
C. Sub objective: Business travel

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

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

	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2025</i>	
Goal	570	555,8	541,5	527,5	513	499	484,5	427,5	kg CO ₂ per FTE
Realized	570	488,5	325,3	283,6	529,9	466,1	189,65	...	kg CO ₂ per FTE

Progress Business Travel



Progress Scope 3

D. Scope 3

The implementation of the Value Chain Initiative has not yet begun. It has now been incorporated in the *R&D Group Sustainable Buildings* .

For 2020-2021 we will need to create a template factsheet for the supporting structure (*draagconstructie*). The factsheet will state hard data regarding embodied carbon for the various types of supporting structure (concrete, steel, wood), in order to nudge the client towards the 'right' choice.

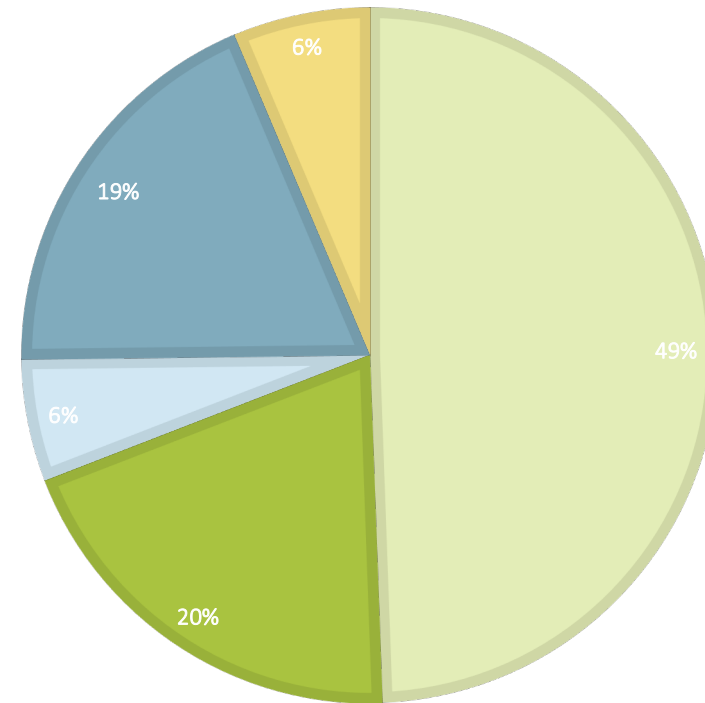
WE NEED AN UPDATE ON THIS FROM THE R&D GROUP!

Total footprint 2021

20.954 kg
[2020: 44.577]

CO2 FOOTPRINT

■ Mobility ■ Suppliers / Transport of goods ■ Subcontractors ■ Heating ■ Paper use



Conclusion

Looking at our CO₂ reduction numbers you have to take into account that we calculate the progress of CO₂ reduction per FTE and since our office has grown the numbers show a lot of reduction. FTE average over the last couple of years:

2019	32 FTE
2020	42 FTE
2021	54 FTE

Our actual total footprint is very low this year. This is mainly because we haven't been flying this year (jan-jun) and public transport within the Netherlands is now CO₂ neutral.

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architecture+urbanism

Colophon

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