



CO₂ Communication Audit year 2025



Responsibilities

Within the organization, an internal coordinator is responsible for managing the CO₂ Performance Ladder. This includes setting tasks, assigning responsibilities, and reporting progress to senior management. The organization is supported by an external sustainability consultancy, which assists with the documentation required to maintain Level 3 certification.

As the company operates internationally, it works with regional representatives to implement and support sustainability efforts locally. In the Netherlands, a local representative oversees the CO₂ Performance Ladder participation, collects relevant data, and manages projects that fall under sustainability-related tendering advantages. This role also includes maintaining contact with clients and contracting authorities.

Projects with Award Advantage

As of the current reporting period, no projects have involved a CO₂ award advantage. This aligns with current market agreements, where the CO₂ Performance Ladder was not included in tender requirements. These projects, when applicable, involve awarding points for sustainable practices, regardless of whether it influences the final awarding decision.

Reference and Reporting Year and Changes

The baseline year for CO₂ reduction targets is 2019. This report concerns the reporting year 2024, and all related data refer to this year unless otherwise specified.

In response to updated client requirements and technological developments, the company introduced a new grinding strategy in 2022. This approach involves more precise rail profile restoration using advanced measurement systems and longer train operations. As a result, diesel consumption—and associated Scope 1 emissions—has increased, though the new method enhances rail longevity and operational efficiency. Preventive grinding now allows for faster, more extensive coverage, while corrective grinding remains more resource-intensive. To better align emissions tracking with operational reality, the company revised its reduction metric in 2022—from "meters finished" to "total meters ground." This change was approved by an independent auditor.

Quantification Methods

CO₂ emissions are calculated using a customized model where all consumption data is entered. The model applies emission factors published by the CO₂ Performance Ladder initiative (www.co2emissiefactoren.nl). For 2024, the dataset co2-emissiefactoren2024.xlsx was used, in compliance with version 3.1 of the certification scheme. No changes were made to the quantification or calculation methodology during the reporting year.

CO₂ Emission Inventory 2024

In 2024, total emissions amounted to 19.651 tonnes of CO₂:

- Scope 1 (direct emissions): 18.716 tonnes
- Business travel: 935 tonnes
- Scope 2 (indirect emissions): 0 tonnes

The organization's facilities are powered by 100% green electricity, and no natural gas is used.

MAIN OBJECTIVE

SPENO International wants to emit 15% less CO_2 in 2025 compared to 2019*

*This objective is linked to total meters grinded.

ANNUAL OBJECTIVE	
2019	Reference year
2023	0%
2024	0,5%
2025	15%

SPENO estimates that approximately 4% of its total fleet fuel consumption in 2025 will consist of HVO100, amounting to roughly 225,000 litres. This calculation is based on the 2024 consumption data and train deployment plans. This is a reducing of about 655 tons of CO2.

SUB-OBJECTIVES **OBJECTIVE** PROGRESS 14% reduction in 2025 compared to 16% increase Scope 1 2019 0% Scope 2 0% reduction in 2025 Achieve a 30% reduction in business 29% reduction **Business travel** by 2025 compared to 2019 **Green power** 100% 100% Achieve a 10% reduction in office Electricity consumption has Energy decreased with 9% consumption by 2025 energy consumption compared to 2019

PROGRESS CO2 EMISSIONS IN TONESS CO2							
	2019	2020	2021	2022	2023	2024	
SCOPE 1 EMISSION FLOWS	Whole year						
Gas consumption - office	-	-	-	-	-	-	
Fuel consumption - lease cars	327	263	356	345	292	302	
Fuel consumption - trains	15.805	14.562	19.791	18.632	18.076	18.414	
TOTAL SCOPE 1	16.132	14.825	20.147	18.977	18.367	18.716	
SCOPE 2							
Electricity - green	-	-	-	-	-	-	
TOTAL SCOPE 2	-	-	-	-	-	-	
BUSINESS TRAVEL							
Air travel <700 km	231	80	72	105	118	129	
Air travel 700-2500 km	727	512	667	597	623	649	
Air travel >2500 km	358	60	54	80	172	156	
TOTAL BUSINESS TRAVEL	1.316	652	793	782	913	935	
TOTAL EMISSIONS	17.448	15.477	20.940	19.759	19.280	19.651	

	2019	2020	2021	2022	2023	2024
	Whole year					
Absolute progress compared to 2019	100%	89%	120%	113%	111%	113%
Total km grinded	68.864	68.993	79.732	74.407	70.062	70.101
Emission per kilometer	0,25	0,22	0,26	0,27	0,28	0,28
Relative progress compared to 2019	100%	89%	104%	105%	109%	111%

Steering cycle

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ROSS-PHASE	- 4 ⁶	• ? ** •	CEO	- Q ²	- C	, <u>o</u> , .	N . 0
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omply with continuous improvement according to the management cycle	Continuous	Continuous	A	R			S
omply with mandatory internet publication on the SKAO website	Annual	May/June		A			R S
omply with contribution obligation to the SKAO	Annual	April	A	R			
LAN		F .1					
raw up and approve organizational boundaries	Annual	February	A	Α			R
odate organization size	Annual	May		A			R
chedule internal audit	Annual	March		A			R
hedule an external audit with the certification body	Annual	March	S	A			R
pdate list of energy flows for scope 1 and 2	Semi annual	March (whole) October (half)		A		S	R
heck for new options for CO2 reduction in scope 1 and 2	Annual	During management review/Cont	i A	R			S
ake an inventory of relevant initiatives and discuss them with management	Annual	Мау	A	R			S
ellecting data from the energy flows in scope 1 and 2	Semi annual	February (whole) and September	(half)	AR		S	S
rform energy assessment	Annual	May		A			R
alitatively defined objective for scope 1 and 2 and approval	Annual	June	A	A		R	S
aw up and approve a qualitatively defined objective for alternative fuels/use	c Annual	June	A	A		R	S
tablish an effective management cycle with assigned responsibilities	Annual	September		A		R	S
entify internal and external stakeholders	Annual	September		A		R	S
an passive and limited active participation in at least one initiative	Annual	Continuous		A		R	S
odate CO2 emission factors	Annual	January					AR
epare emission inventory reporting for scope 1 and 2	Semi annual	March (whole) October (half)		Α		s	R
aw up/check and approve an action plan and quantitative objectives for scop		April and December	А	R		R	S
aw up, check and approve an action plan and quantitative objectives for scop aw up, check and approve energy management action plan for scope 1 and 2		April and December	A	R		R	S
			A	A		ĸ	R
aw up SKAO list of measures and ambition definition	Annual	May		R			
aw up/check and approve a communication plan	Annual	April	A				S
an active participation in at least one initiative, including budget	Annual	Continuous, budget in manageme	A	A		R	S
0							
plement an action plan for scope 1 and 2	Continuous	Continuous	A	R			S
tend initiatives	Semi-annual	Varied, biquarterly		A		R	
HECK							
I hoc internal and external communication about the energy reduction policy	Ad hoc	Ad hoc		A	R		
ructural internal communication about energy policy and objectives	Semi-annual	June (whole) October (half)	A	A	R		S
rform quality control on the emission inventory reporting	Semi annual	May and October		A			R
aluate progress on the action plan and objectives for scope 1 and 2	Semi-annual	May/June and September/Octobe	I A	A			R
ecute communication plan for scope 1 and 2	Semi-annual	June (whole) October (half)		A	R		S
aluate implementation of the communication plan	Semi-annual	July and November		A	R		
aluate attendance at the initiatives	Annual	February and September		A		R	S
clude required budgets in the management review	Annual	May	A	R			
onduct management review including recording outstanding action points	Annual	May	A	R		R	S
induct internal audit	Annual	May	A	R			RS
onduct external audit	Annual	June		IX.		СІ	103
		Sanc					
estore corrective actions from internal audit	Continuous	Continuous, May	А	R		R	S
prect discrepancies from the external audit	Annual	Continuous, May Continuous, July/augustus	A	R		R	S
· ···· · · · · · · · · · · · · · · · ·						R	S
djust on points of interest from the "check" phase	Continuous	Continuous	A	R		к	S

Data gathering and quality

The data quality is high and no improvements are needed. The footprint is evaluated, filled inand tested every 6 months. All information is provided to the project leader Y.G. (full year data is collected in March and half-year in September). A quality check is performed on the data after the assessment has been made, also during the internal audit.

Emissionflow	unit	source	Uneste invest
Fuel consumption	on fleet		
Diesel cars		Fuel card reporting	
Diesel trains	Liter	Reporting	The presented results are the actual values. Almost all data used for the calculation of the CO2 footprint is based on invoices or measured quantities. This keeps the uncertainty margin to minimum. All emission flows were catalogued using the best available information. However, it is
Electricity			possible that while composing the CO2 footprint, a typing error was made.
Office		Electricity provider	
	kWh		None, get the data directly from the website of the electricity provider.
Air travel			
Air travel	km	Invoices	Uncertainty margin is minimum. All emission flows were catalogued using the best available information, invoices. However, it is possible that while composing the CO2 footprint, a typing error was made.

Reduction measures

Actions Completed

- All cars have been replaced by BlueMotion cars
- Sent newsletter to field personnel about economic driving behavior
- Switched to 100% hydraulic electricity (Scope 2 since 2019)

S Actions Currently Being Carried Out (Ongoing)

- Limit engine use minimize warm-up time
- Purchase electric hand tools when available
- Maintain equipment as per the maintenance guide
- Optimize train relocation to reduce unnecessary passes and phase out older trains
- Encourage employees to reduce temperature differences in AC use
- Promote economic behaviour in the office
- Promote train travel over flights
- Increase the use of HVO100 diesel

Planned Future Actions

- Choose electric vehicles when replacing cars
- Electrification of 5 Dutch depots to reduce main engine idling
- Research extension of HVO100 diesel to more countries
- Production of an electric train
- Explore collecting more flight-related data (to improve data quality)

The project leader, Y.G., is responsible for monitoring the implementation of these actions. The replacement of fossil fuel cars is scheduled for the end of 2025. As no vehicles have been ordered yet, the exact impact on emissions cannot be determined at this time. However, since fuel consumption from cars accounts for only about 2% of the organization's total CO₂ emissions, the expected reduction is estimated to be no more than 1% in the short term.

The use of HVO100 fuel is projected to result in approximately a 4% reduction in emissions, based on initial data from the first half of 2025. The majority of the remaining reduction is expected to come from the introduction of an electric train, which is anticipated to contribute around 10% to overall CO₂ reductions.

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Signature

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Signed: 17-06-2025