Envirometer

Report 2022

EeStairs Nederland bv

Compiled on 30-03-2023

Preface

De Milieubarometer vertaalt gegevens zoals elektriciteitsverbruik en afvalproductie naar grafieken en tabellen die de milieubelasting van het bedrijf inzichtelijk maken. In dit rapport worden de Milieubarometer uitkomsten van EeStairs Nederland bv samengevat in enkele grafieken en tabellen.
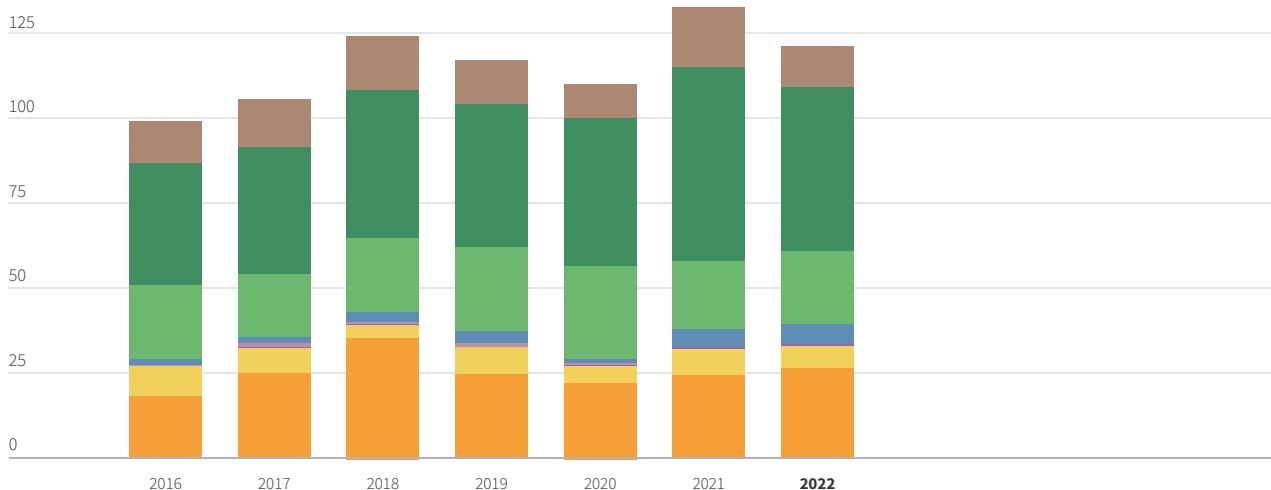
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Environmental burden

Multiyear graph - Total
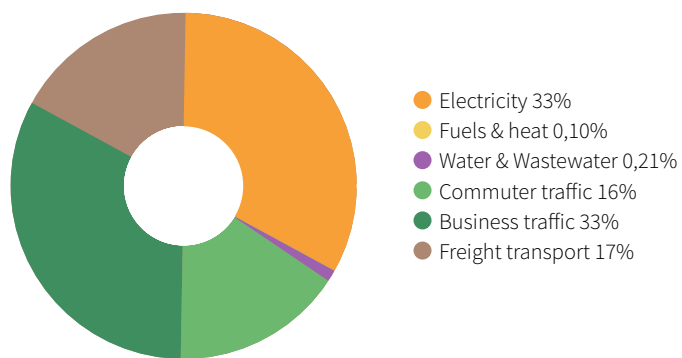
% compared to 2016

- ● Electricity
- ● Fuels & heat
- ● Water & Wastewater
- ● Emissions
- ● Commercial waste
- ● Commuter traffic
- ● Business traffic
- ● Freight transport

This chart shows the distribution of the environmental impact among the themes. The calculated environmental impact is the combination of environmental damage such as fine dust, acidification and greenhouse effect. The environmental impact of the first year in the chart is set at 100%.

CO2

Total

2022

- Electricity 33%
- Fuels & heat 0,10%
- Water & Wastewater 0,21%
- Commuter traffic 16%
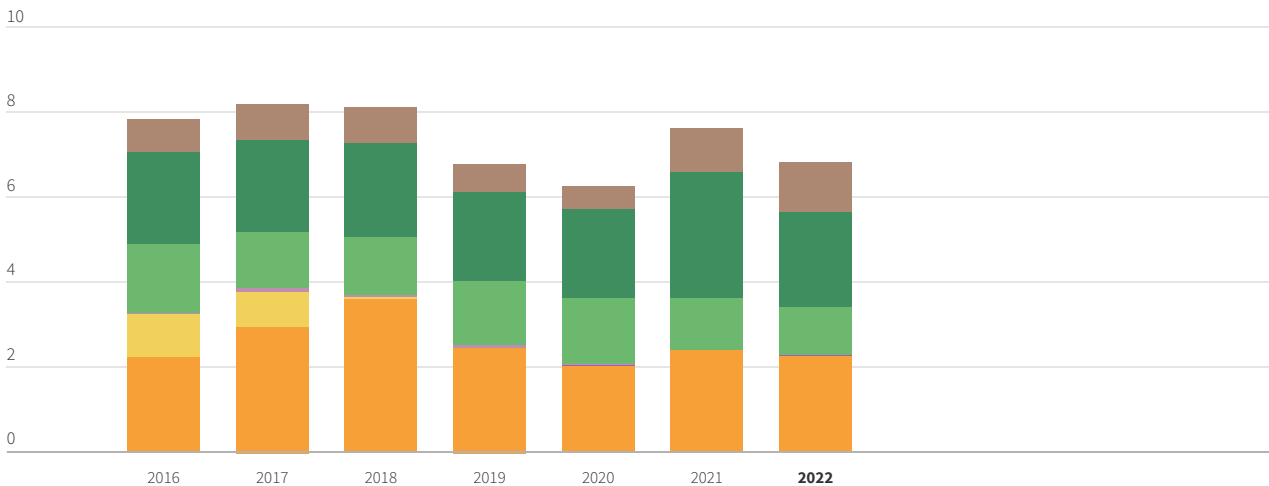- Business traffic 33%
- Freight transport 17%

The pie chart shows the distribution of CO2 emissions over the themes. The larger the slice, the more this theme contributes to the overall CO2 footprint of the company.

CO2

Multiyear graph - Total per Employees

Tonne CO_2 / fte

- ● Electricity
- ● Fuels & heat
- ● Water & Wastewater
- ● Emissions
- ● Commuter traffic
- ● Business traffic
- ● Freight transport

This chart is a graphical representation of the CO2 footprint in tonnes of CO2 per year. The larger a theme in this graph, the greater the contribution of that theme to the emission of greenhouse gases. No CO2 emission is allocated to waste.

If CO2 emissions are compensated, the CO2 offset is shown in the blue column.

This graph is calculated per Employees. This makes the outcome less dependent on the size. Therefore the outcome is more comparable to previous years and/or other companies.

CO2-footprint

Per fte - CO_2 Thematically

	Theme			CO_2-parameter		CO_2-equivalent	
Electricity							
Self generated electricity - solar	Electricity	3.836	kWh / fte	0	kg CO_2 / kWh	0	tonnes CO_2 / fte
Returned self-generated electricity	Electricity	1.228	feed-in kWh / fte	0	kg CO_2 / feed-in kWh	0	tonnes CO_2 / fte
Purchased electricity	Electricity	4.404	kWh / fte	24,6	kg CO_2 / kWh	2,30	tonnes CO_2 / fte
					Subtotal	*2,30*	tonnes CO_2 / fte
Fuels & heat							
Natural gas used for heating	Fuels & heat	0	m3 / fte		kg CO_2 / m3	0	tonnes CO_2 / fte
Woodchips from own waste wood	Fuels & heat	15	GJ / fte	22,3	kg CO_2 / GJ	0,00711	tonnes CO_2 / fte
Woodchips	Fuels & heat	0	kg droge stof / fte		kg CO_2 / kg droge stof	0	tonnes CO_2 / fte
					Subtotal	*0,00711*	tonnes CO_2 / fte
Water & Wastewater							
Drinking-water	Water & Wastewater	11,1	m3 / fte	14,0	kg CO_2 / m3	0,00332	tonnes CO_2 / fte
Wastewater	Water & Wastewater	0,372	PU / fte	1.386	kg CO_2 / PU	0,0110	tonnes CO_2 / fte
					Subtotal	*0,0143*	tonnes CO_2 / fte
Emissions							
Solvents	Emissions	-1,98	kg / fte	376	kg CO_2 / kg	-0,0158	tonnes CO_2 / fte
					Subtotal	*-0,0158*	tonnes CO_2 / fte
Commuter traffic							
Public transport	Commuter traffic	435	passenger km / fte	0,705	kg CO_2 / passenger km	0,00653	tonnes CO_2 / fte
Bicycle and walking	Commuter traffic	1.073	km / fte	0	kg CO_2 / km	0	tonnes CO_2 / fte
Passenger car	Commuter traffic	5.842	km / fte	9,07	kg CO_2 / km	1,13	tonnes CO_2 / fte
					Subtotal	*1,13*	tonnes CO_2 / fte
Business traffic							
Electric cars (charging at the company)	Business traffic	141	kWh / fte	24,6	kg CO_2 / kWh	0,0737	tonnes CO_2 / fte
Passenger car (in litres) gasoline	Business traffic	95,2	litre / fte	131	kg CO_2 / litre	0,265	tonnes CO_2 / fte
Passenger car (in litres) diesel	Business traffic	0	litre / fte		kg CO_2 / litre	0	tonnes CO_2 / fte
Delivery van (in litres) diesel	Business traffic	587	litre / fte	153	kg CO_2 / litre	1,92	tonnes CO_2 / fte
					Subtotal	*2,25*	tonnes CO_2 / fte
Freight transport							
Truck Euro VI (in litres) diesel	Freight transport	358	litre / fte	153	kg CO_2 / litre	1,17	tonnes CO_2 / fte
					Subtotal	*1,17*	tonnes CO_2 / fte
					CO_2 Emissions	**6,86**	tonnes CO_2 / fte

This CO2 footprint shows how much greenhouse gas is emitted and eventually offset by the purchase of CO2 compensation. CO2 emissions in this footprint are grouped by theme. The footprint also shows which contributes most to CO2 emissions.

Indicators

		2022	2020	2021	2019	2017	2016	2018
Energy								
Percentage night or off-peak electricity	%	21,4	18,4	19,7	17,8	21,9	20,1	21,0
Electricity consumption per floor area	kWh/m2							
Electricity consumption per units	kWh/units							
Fuels & Heat & Cold								
Total fuel consumption per units	m3 gas eq./units							
Heating energy consumption per building volume	m3 gas eq./m3							
Water and waste water								
Tapwater consumption per office staff member	m3/fte	11,1	16,5	11,6	10,2	6,38	4,62	9,79
Waste								
Sorting of waste	%	28,1	83,7	44,8	55,1	51,6	67,2	50,3
Waste per employee	kg/fte	808	621	762	593	624	858	663
Transport								
Fuel consumption road haulage per units	litre diesel eq./units							
Raw materials								
Raw material 1 per employee	Units/fte							

These indicators translate annual data like 'total electricity' to more comprehensible numbers like 'kWh/m2 floor area' or 'sortingpercentage of waste'. Indicators also enable comparison with the environmental performance of larger or smaller organizations.

Measures

Industry - Woodworking and Furniture	Status	Year	Erkende maatregel	Moment
Use an internal or shadow price on carbon Basic data - *management: general*	⚪ START			
Make your business/product climate neutral Basic data, Compensation - *management: general*	⚪ START	2025		
Encourage good behavior Basic data - *management: general*	⚪ START	2025		
Compare your Envirometer with peers Basic data - *management: measuring*	⚪ START	2025		
Work on CO2-reduction in the value chain Basic data - *management: measuring*	⚪ START			
Turn off equipment after hours Electricity - *electrical devices*	⚪ START			
Energy efficient electric motor Electricity - *electrical devices*	🟢 DONE	2020	🔵 GB3, FF1	Dependent
Switch to (real) green power Electricity - *renewable energy*	🟡 RESEARCH	2021		
Solar panels (or PV panels) Electricity - *renewable energy*	🟢 DONE	2017		
Ask a dead zone between cooling and heating Electricity, Fuels & heat - *building heating, cooling of a building*	⚪ START			
Ventilation outdoor times Electricity, Fuels & heat - *ventilation*	🟢 DONE	2017	🔵 GB1, GB6	Independent
Frequency controlled fan (dust) extraction Electricity, Fuels & heat - *ventilation*	🟢 DONE	2020	🔵 GB4	Independent
Local exhaust ventilation (LEV) Electricity, Fuels & heat - *ventilation*	🟢 DONE	2020	🔵 GB5	Independent
Let in daylight through the roof Electricity - *lighting*	🟢 DONE	2017		
Turn off lights by (part of) space Electricity - *lighting*	🟢 DONE	2017		
Control outdoor lights with twilight switch and timer or motion sensor Electricity - *lighting*	🟢 DONE	2017	🔵 GD10	Independent
Motion detection for lighting Electricity - *lighting*	🟢 DONE	2017	🔵 GD11	Independent
Daylight-responsive lighting control Electricity - *lighting*	🟢 DONE	2017	🔵 GD12, GD13, GD14	Dependent
Energy-saving accent lighting Electricity - *lighting*	🟢 DONE	2017	🔵 GD5	Independent
Turn off advertising lights at twilight switch and timer Electricity - *lighting*	🟢 DONE	2017	🔵 GD6	Independent
Energy efficient outdoor lighting Electricity - *lighting*	🟢 DONE	2017	🔵 GD7	Independent
Energy efficient lighting advertisement Electricity - *lighting*	🟢 DONE	2017	🔵 GD8	Independent

Industry - Woodworking and Furniture	Status	Year	Erkende maatregel	Moment
Safety lighting Electricity - *lighting*	🟢 DONE	2017	🏛 GD9	Natural
LED emergency lighting Electricity - *lighting*	🟢 DONE	2017	🏛 GD9	Natural
Reduce fan speed of room coolers in server rooms Electricity - *ict*	🟢 DONE	2017		
Desktop computers, laptops and computer screens with Energy Star Electricity - *ict*	⚪ START			
Energy efficient UPS (uninterruptable power system) in server room Electricity - *ict*	⚪ START			
Energy-efficient ICT appliances in the office space Electricity - *ict*	⚪ START			
Energy efficient cooler for server room Electricity - *ict*	⚪ START			
Power management on servers Electricity - *ict*	⚪ START			
Encourage energy-efficient ICT behavior Electricity - *ict*	⚪ START			
Virtualization of servers Electricity - *ict*	🟢 DONE	2016		
Free cooling for server rooms Electricity - *ict*	⚪ START			
Reduce office equipment Electricity, Office Paper - *ict, office*	🟢 DONE	2016	🏛 FE1	Natural
Energy saving opportunities in construction and conversion Electricity, Fuels & heat - *management: general*	🟢 DONE	2018		
Satisfy (recognized) measures Activities Decree Basic data, Business traffic, Commercial waste, Commuter traffic, Electricity, Freight transport, Fuels & heat, Hazardous waste, Passenger transport, Visitor traffic - *management: general*	🟡 CONTINUOUS			
Effective management and maintenance of mandatory (energy) measures Electricity, Fuels & heat - *management: general*	🟢 DONE	2020	🏛 alle EM	Dependent
Monitor and analyze energy consumption (power management) Electricity, Fuels & heat - *management: measuring*	🟡 CONTINUOUS	2018		
Detect and repair leaks of compressed air Electricity - *compressed air*	🟡 CONTINUOUS	2018		
Switch compressor off as much as possible Electricity - *compressed air*	🟢 DONE	2018	🏛 FC2	Independent
Optimal control of the compressed air system Electricity - *compressed air*	⚪ START	2025	🏛 FC3	Natural
Lower temperature of inlet air for the compressor Electricity - *compressed air*	⚪ START	2025	🏛 FC4	Independent
HR blow gun or vacuum Electricity - *compressed air*	⚪ START		🏛 FC5	Independent
Hybrid system of heat pump with central heating boiler Fuels & heat - *building heating, renewable energy*	⚪ START			

Industry - Woodworking and Furniture	Status	Year	Erkende maatregel	Moment
Win heat from ventilation air Fuels & heat - *ventilation*	🟢 DONE	2017	🏛 PB4	Independent
Check structural function of the heating arrangement Fuels & heat - *building heating*	⚪ START			
Sustainable heating Fuels & heat - *building heating*	🟢 DONE	2017		
wood Incinerator Fuels & heat - *building heating*	🟢 DONE	2017		
Night temperature Fuels & heat - *building heating*	⚪ START			
Temperature sensors climate installation at the right place Fuels & heat - *building heating*	⚪ START			
Radiant heating system Fuels & heat - *building heating*	🟢 DONE	2018	🏛 FA2b, PA2	Natural
Weather compensated (central heating) control Fuels & heat - *building heating*	🟢 DONE	2017	🏛 FA3	Independent
Programmable timer for space heating Fuels & heat - *building heating*	🟢 DONE	2017	🏛 FA4	Independent
Insulate pipes Fuels & heat - *(hot) water, reducing energy loss*	🟢 DONE	2017	🏛 GC5, FB1a, PB3	Independent
Large-scale isolation measures Fuels & heat - *reducing energy loss*	🟢 DONE	2017		
Double glazing and low-e glass Fuels & heat - *reducing energy loss*	🟢 DONE	2017		
Insulate flat roof Fuels & heat - *reducing energy loss*	🟢 DONE	2017		
Insulate roof Fuels & heat - *reducing energy loss*	🟢 DONE	2017		
Improve sealing of air leaks Fuels & heat - *reducing energy loss*	🟢 DONE	2017		
Insulate ducts Fuels & heat - *reducing energy loss*	🟢 DONE	2017	🏛 GB2	Independent
Make passdoors in large shed or garage doors Fuels & heat - *reducing energy loss*	🟢 DONE	2017	🏛 GC1	Independent
Isolate service doors Fuels & heat - *reducing energy loss*	🟢 DONE	2017	🏛 GC2a	Natural
insulate appendages Fuels & heat - *reducing energy loss*	🟢 DONE	2017	🏛 GC5, FB1b, PB3	Independent
Automatically turn-off exhaust of the spray booth Fuels & heat - *painting and spraying*	🟢 DONE	2017	🏛 PA1	Independent
Use open burner system for spray booth Fuels & heat - *painting and spraying*	⚪ START		🏛 PA2	Natural
Optimize creation of paints and lacquers Commercial waste, Emissions, Hazardous waste - *painting and spraying, waste prevention*	⚪ START			
Optimize storage and inventory of paints and lacquers Commercial waste, Emissions, Hazardous waste - *painting and spraying, purchasing and inventory management, waste prevention*	⚪ START			

🌿 **Envirometer** Report

Industry - Woodworking and Furniture	Status	Year	Erkende maatregel	Moment
Optimize painting and spraying Commercial waste, Emissions, Hazardous waste - *painting and spraying, waste prevention*	🟡 DO	2020		
Biodegradable adhesives and adhesives without organic solvents Emissions - *adhesives and sealants*	⚪ START			
Clean sealing equipment with soap or a knife Emissions, Hazardous waste - *adhesives and sealants*	⚪ START			
Keep a solvent registration Emissions - *management: measuring*	⚪ START	2025		
Close paint cans Emissions, Hazardous waste - *painting and spraying*	🟢 DONE	2016		
Reduce overspray (with HVLP spray guns) Emissions, Hazardous waste - *painting and spraying*	⚪ START			
Recovery system lacquer overspray Emissions, Hazardous waste - *painting and spraying*	⚪ START			
UV lacquer Emissions - *painting and spraying*	⚪ START			
Make agreements with suppliers on packaging Commercial waste - *purchasing and inventory management, waste prevention*	⚪ START	2025		
Waste monitoring Commercial waste, Hazardous waste - *management: measuring, waste prevention, waste separation*	⚪ START			
Bulk packaging for kit Commercial waste - *adhesives and sealants, waste prevention*	🟢 DONE	2016		
Bulk packaging for paints and lacquers Commercial waste - *painting and spraying, waste prevention*	⚪ START	2025		
bulk Packaging Commercial waste - *waste prevention*	⚪ START			
Use wood residues Commercial waste - *construction, waste prevention, woodworking*	🟢 DONE	2017		
Reuse packaging Commercial waste - *packaging, waste prevention*	🟢 DONE	2018		
Wood cutting with crosscut installation Commercial waste - *waste prevention, woodworking*	🟢 DONE	2017		
Plate cutting optimization by computer and automatic beam saw Commercial waste - *waste prevention, woodworking*	🟢 DONE	2017		
Print and copy two sided Commercial waste, Office Paper - *office, waste prevention*	🟢 DONE	2016		
Use/ask for returnable pallets Commercial waste - *waste prevention*	🟢 DONE	2016		
Use return packaging Commercial waste - *waste prevention*	🟢 DONE	2016		
Reduce paper use Commercial waste, Office Paper - *office, waste prevention*	⚪ START	2025		
Prevent lumber waste Commercial waste - *construction, waste prevention, woodworking*	🟢 DONE	2017		

🖐 **Envirometer** Report

Industry - Woodworking and Furniture	Status	Year	Erkende maatregel	Moment
Avoid waste wood by finger jointing timber Commercial waste - *waste prevention, woodworking*	🟢 DONE	2016		
Make agreements with waste collector on waste separation Commercial waste - *waste separation*	🟢 DONE	2016		
Separate (construction and carpentry) wood waste Commercial waste - *waste separation*	🟢 DONE	2017	🏛 *	
Separate wooden waste (from packaging) Commercial waste - *waste separation*	🟢 DONE	2017	🏛 *	
Separate collection of plastic Commercial waste - *waste separation*	⚪ START		🏛 *	
Separation of metal packaging Commercial waste - *waste separation*	🟢 DONE	2016	🏛 *	
Separation of paper and cardboard Commercial waste - *waste separation*	🟢 DONE	2016	🏛 *	
Separate collection of white and brown goods Commercial waste - *waste separation*	⚪ START		🏛 *	
Separate collection of hazardous waste Hazardous waste - *waste separation*	🟢 DONE	2016	🏛 *	
Use caulking gun optimal Hazardous waste - *adhesives and sealants*	⚪ START			
Reduce discharge of unused adhesives Hazardous waste - *adhesives and sealants*	⚪ START			
Reduce packaging of adhesives Hazardous waste - *adhesives and sealants*	⚪ START			
Dosing / mixing system for two-component paint Hazardous waste - *painting and spraying*	⚪ START			
Color mixing system Hazardous waste - *painting and spraying*	⚪ START			
Parking policy Commuter traffic, Visitor traffic - *transport: other mobility*	🟢 DONE	2017		
Recruitment policy aimed at employees from nearby Commuter traffic - *transport: less kilometres*	🟢 DONE	2016		
Carpooling Commuter traffic - *transport: drive, transport: less kilometres*	🟢 DONE	2016		
Maximize the refund of commuter car kilometers Commuter traffic - *transport: less kilometres, transport: other mobility*	🟢 DONE	2016		
Arrangements to enable less travel days for employees Business traffic, Commuter traffic - *transport: less kilometres*	🟢 DONE	2016		
Contribution to removal expenses to encourage living close to work Commuter traffic - *transport: less kilometres*	⚪ START			
Mobility budgets Business traffic, Commuter traffic - *transport: other mobility*	🟢 DONE	2016		
Services that support the use of bicycles Business traffic, Commuter traffic - *transport: other mobility*	🟢 DONE	2017		
Monitor fuel consumption Business traffic, Freight transport - *shipping, transport: fleetmanagement*	🟢 DONE	2016		

Envirometer Report

Industry - Woodworking and Furniture	Status	Year	Erkende maatregel	Moment
Acquire assignments in the neighbourhood Business traffic, Freight transport - *transport: less kilometres*	🟢 DONE	2016		
Charging station for electric vehicles Business traffic - *transport: other mobility*	🟢 DONE	2017		
Sustainable fuels for passenger cars and vans Business traffic - *transport: purchasing vehicles*	⚪ START			
Electric vans Business traffic, Freight transport - *transport: purchasing vehicles*	🟡 RESEARCH			
Electric cars Business traffic - *transport: purchasing vehicles*	🟢 DONE	2020		
Clean and efficient vans Business traffic, Freight transport - *transport: purchasing vehicles*	🟢 DONE	2020		
Keep tires well inflated Business traffic, Freight transport - *transport: drive, transport: fleetmanagement*	🟡 CONTINUOUS			
Fuel-saving equipment Business traffic, Freight transport - *transport: fleetmanagement*	🟢 DONE	2016		
Energy-efficient driving style (ecodriving) Business traffic, Freight transport - *transport: drive, transport: fleetmanagement*	⚪ START			
Soot filters on diesel vehicles Business traffic, Freight transport - *transport: fleetmanagement*	🟢 DONE	2016		
Green up your fleet and vehicle maintenance Business traffic, Freight transport - *transport: fleetmanagement*	🟢 DONE	2016		
Lower the rolling and air resistance of vehicles Business traffic, Freight transport - *transport: drive, transport: fleetmanagement*	⚪ START			
Transportation savings through innovation process, product or chain Freight transport - *transport: less kilometres*	⚪ START			
sustainable fuels for trucks Freight transport - *transport: purchasing vehicles*	⚪ START			
Larger and lighter trucks Freight transport - *transport: purchasing vehicles*	⚪ START			
Clean and efficient lorries Freight transport - *transport: purchasing vehicles*	⚪ START			
Buy durable goods transport on the road Freight transport - *transport: fleetmanagement*	⚪ START			
Routing and / or navigation freight Freight transport - *transport: drive, transport: fleetmanagement*	🟢 DONE	2016		
Reduce the air resistance of trucks Freight transport - *transport: fleetmanagement*	🟢 DONE	2016		
climate compensation Compensation - *management: general*	⚪ START	2025		

This list shows which of the measures in the Envirometer have already been carried out and which have been planned. Also measures that have not yet been assessed are shown. Measures that are not applicable are excluded from this table.

Measures with the blue 'government label' are 'accepted measures', obligatory for this business sector in the Netherlands. The 'number' and 'moment' als refer to the official list with 'accepted measures'.

Stimular →

DE WERKPLAATS VOOR
DUURZAAM ONDERNEMEN

The Envirometer is a product of Stimular Foundation. Stimular translates the growing demand for sustainability into practical tools and working methods for companies, trade associations, governments and healthcare providers. Stimular wants to accelerate the sustainability of companies and organizations by sharing knowledge and experience, for example on stimular.nl/doe-it-zelf. Aim is to show entrepreneurs and managers what their greatest impact on sustainability is and how they can reduce this impact.