



Sustainability Van Duuren

Delivering your promises!

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Introduction

At Van Duuren, we believe in sustainability and recognize our responsibility to minimize the environmental impact of our operations. We are committed to achieving our sustainability goals and contributing to a more sustainable future for our planet. In this report, we outline our sustainability initiatives and progress towards our goals.

Energy Transition

The energy transition is the shift from fossil fuels to renewable energy sources. As a logistics service provider, we recognize the importance of transitioning to renewable energy to reduce our carbon footprint. We are committed to transitioning to renewable energy sources and reducing our reliance on fossil fuels.



Paris Climate Agreement & European Green Deal

The Paris Climate Agreement is a global agreement to limit global warming to below 2°C above pre-industrial levels and pursue efforts to limit the temperature increase to 1.5°C. The European Green Deal is a plan proposed by the EU to address climate change and promote sustainable growth. It aims to make Europe the world's first climate-neutral continent by 2050. The plan includes initiatives such as reducing emissions from transportation, promoting energy efficiency, and transitioning to a circular economy. As a leading logistics service provider, we play a significant role in stopping climate change. We are committed to supporting the Paris Climate Agreement and the European Green Deal by reducing our greenhouse gas (GHG) emissions.





Our Sustainability Initiatives

Past Initiatives for GHG Emissions Reduction

We have implemented several initiatives to reduce our GHG emissions, including:

Network distribution in cooperation with our partners (since 1942):

In order to improve transport efficiency, we have built a large network of partnering organizations with a common goal: reduction of empty running. We work closely with our partners to optimize our routes, reducing travel distance and increasing trailer fill grade. We have been building this network for over 80 years. In 2020 we have achieved the single largest expansion of our network by partnering with the CargoLine Logistics Network. Adding 86 partners in 44 countries.

Route optimization (since 2004):

We optimize our routes using multiple calculation models to minimize travel distance and reduce fuel consumption. These calculations are performed using our Transport Management Systems by our planners.

Eco-driving training (since 2006):

All truckdrivers participate in an eco-driving training to promote fuel-efficient driving. Ecological driving is a regular part of the drivers' professional competence certificate.

Free charging for company full-electric vehicles (since 2019):

We believe that in order to stop climate change as an organization, our employees need to have the same mind-set. To encourage our colleagues to contribute in their personal lives as well, we provide them with free charging for electric vehicles at the office and full-electric lease cars. Currently our lease fleet consists of 8 full electric vehicles and 3 plug-in hybrids. This initiative resulted in a reduction of emissions for business and private travel of 31t CO₂e, compared to a similar fleet of conventional ICE cars. (timeframe Q2 '19 – Q1 '23).

Heat Insulation & double glazing in new Cross-dock (2021):

In preparation of the relocation to our new Cross-dock facility, we have improved the heat insulation for the office spaces. The roof has been insulated and the windows have been changed to double glazing with aluminum sandwich frames. The Cross-dock itself is unheated, thus requires no further insulation. These measures have resulted in a decrease in natural gas usage and lowering of GHG emissions.

Setting criteria for subcontractors (since 2022):

In order to reduce emissions from the trucks used in our network, we have been selecting our subcontractors on the Euro classification of their trucks. New subcontractors can only sign with us if they use Euro-6 trucks or zero emission vehicles. Currently we have a 79% total usage of Euro-6 vehicles. We strive for 90% Euro-6 by the end of 2023. We give preference to the use of alternative or sustainable fuels and have partnered with multiple subcontractors who can provide zero or low emission transport. We currently have a wide range of vehicles to our disposal, such as: full electric box vans, bio-CNG box trucks and tractors, HVO100 box vans & electric cargo bikes.

Changing the lighting in the Cross-dock and offices to LED lights (2022):

We have replaced our old lighting systems with energy-efficient LED lights in our Cross-dock and offices to reduce electricity usage and GHG emissions. The existing LED lights were changed to newer more energy-efficient models to further reduce electricity usage and GHG emissions.

Dynamic light management in Cross-dock and offices (2022):

We have implemented dynamic light management in our offices and cross-dock. This system utilizes sensors to detect occupancy and natural light levels, and adjusts lighting accordingly. For instance, when a room is empty or receives enough natural light, the system can automatically turn off the lights, thereby reducing energy consumption.

Lowering central heating water temperature to 55°C & heat pump test (2022):

In order to reduce our dependency on natural gas and reduce emissions, we have lowered the water temperature for the central heating system to 55°C and turned down the thermostat. This specific temperature was chosen in order to test the feasibility of using heat pumps, since they are able to sustain 55°C in our configuration. The test was successful and confirms the possibility of using heat pumps.



Current initiatives

We are currently working on the following initiatives in order to reduce our GHG emissions:

Future-proofing our new cross-docking facility in Vianen (2022-2024):

Currently we are in the process of fitting our new cross-docking facility with 1250 solar panels, an improvement over our old warehouse, which had 750 panels. The yearly output is calculated at 432.000kWh. This is key in our plan to reduce emissions and achieve our goal of a net-zero warehouse. The calculated yearly CO₂e reduction for this project is 53t for the reduced electricity consumption from the grid.

Offsetting emissions (2023-2024):

We are exploring options for offsetting our emissions, such as offering GHG compensation to customers through the use of HVO100 and through investing in the reduction of deforestation by replanting trees. We plan to offer this program to a few interested clients at first as a test.



Researching on-site storage of energy, generated by our solar panels (2022-2025):

In order to reduce our dependency on the electricity grid and to meet our night-time energy needs we are in consultation with a specialist for storing our daytime generated energy in batteries or an state-of-the-art supercapacitor. Providing the bases for electrification of, and the charging infrastructure for our fleet of the future.

Researching the transition to electric or hydrogen trucks (2023-2025):

We are researching the possibilities of transitioning to electric or hydrogen trucks to further reduce our carbon footprint. We are in consultation with different suppliers for trucks and charging infrastructure in order to build a business case for ourselves and our subcontractors.

Emissions Dashboard for clients (2023):

We have started to offer an emissions dashboard to a select group of clients as a pilot project. With this dashboard clients can monitor the emissions attributed to their shipments. The shown emissions are split per type: Scope 1 t/m 3. With positive results we will roll-out and offer the dashboard to all our clients.



Future Initiatives

We are committed to continuously improving our sustainability efforts and have identified the following future initiatives and goals:

1 Central heating by heat pump (2024-2025)

We plan to use heat pumps for central heating in our office to significantly reduce the carbon footprint of the building. Heat pumps use electricity to transfer heat from the air or ground into the building, making them more energy-efficient than traditional heating systems that burn fossil fuels. This also give us the possibility to use our own generated solar power, further reducing emissions.

2 Collective purchasing, generation and storage of sustainable energy (2025-2027)

Van Duuren is an active member in the local entrepreneurs interest group 'BIZ'. Together with other local businesses, we plan to research the possibilities for the collective purchasing, generation and storage of sustainable energy. We have a vision of locally generated and locally stored solar power, utilizing all available roof space for the placement of solar panels. This initiative requires extensive investments, but will help us and other to be independent of the electricity grid and reduce our emissions.

3 Net-Zero cross-dock and offices (2028):

As a company, our goal is to reduce our impact on the environment by making our warehouse and offices net-zero emissions by 2028. This means that we are committed to minimizing our carbon footprint and reducing our greenhouse gas emissions to as close to zero as possible while offsetting any remaining emissions.

4 Tracking emissions from business travel and commuter miles (2028):

Tracking and reporting the emissions from employees' business travel and commuter miles is a crucial step towards building a sustainable and environmentally responsible organization. By measuring and analyzing these emissions, we can identify areas for improvement and take steps to reduce our carbon footprint.

5 City logistics with zero emission (box) vans (2028)

We have set the goal to supply the city centers of the 40 largest cities in the Netherlands, with only zero emission vans and box vans ($\leq 3,5t$). Per 2028 we will stop using vans with direct emissions such as diesel for this type of transport in order to reduce pollution in urban areas.

Clients we help to deliver their promises



G-Star: 'As soon as it gets complicated, we know we can dispatch it by Van Duuren.'



Zuiver: 'Communicating and never basing anything on assumptions is Van Duuren's strength.'



HEMA: 'Van Duuren's good communication and preparation are unparalleled.'



Future Initiatives

We are committed to continuously improving our sustainability efforts and have identified the following future initiatives and goals:

6 City logistics with zero emission trucks (2030)

We have set the goal to supply the city centers of the 40 largest cities in the Netherlands, with only zero emission trucks ($\geq 3,5t$). Per 2030 we will stop using trucks with direct emissions such as diesel for this type of transport in order to reduce pollution in urban areas.

7 All new trucks zero emission (2040):

Our goal is to achieve zero emissions for all new trucks used by our company and network by the year 2040. This goal is aligned with our commitment to sustainability, as it aims to reduce the negative impact of transportation on the environment. Achieving this goal will require a significant shift towards electric or hydrogen fuel cell-powered trucks, as well as investments in infrastructure and technology.

8 Net-Zero (2050):

Our goal is to achieve net zero greenhouse gas emissions by 2050. This requires a comprehensive approach to reducing our carbon footprint across our operations, including energy use, transportation, and waste management. We are committed to investing in renewable energy and low-carbon technologies, as well as working with our suppliers and partners to reduce emissions throughout our value chain. Our goal is to contribute to a more sustainable future for all and mitigate the impacts of climate change.



Our Conclusion:

“At Van Duuren, we are committed to sustainability and reducing our environmental impact. We support the Paris Climate Agreement, the European Green Deal and the energy transition and have implemented several initiatives to reduce our GHG emissions and transition to renewable energy sources. We will continue to work towards our sustainability goals and contribute to a more sustainable future for our planet.”

Questions?

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