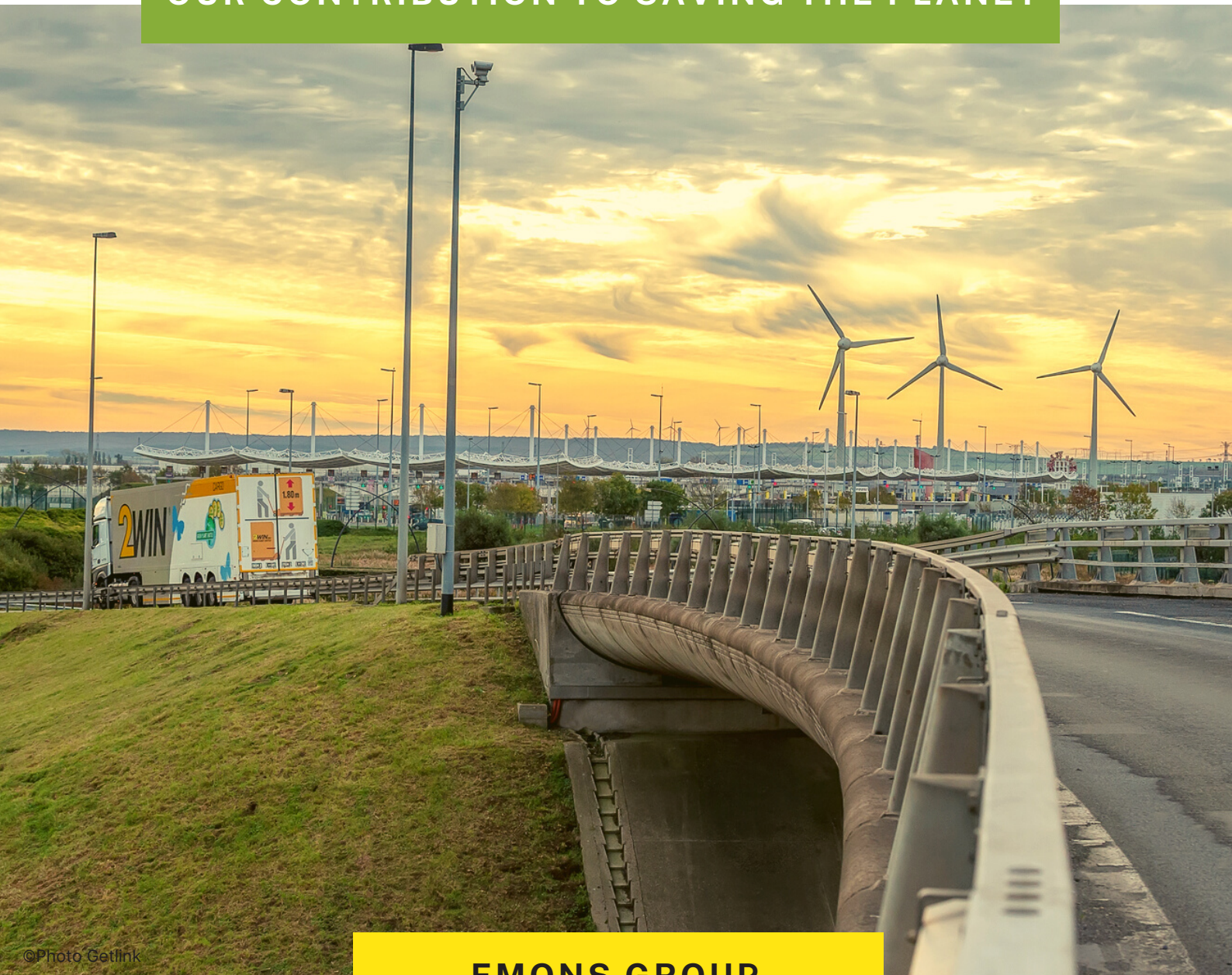


WHITEPAPER

SUSTAINABILITY

OUR CONTRIBUTION TO SAVING THE PLANET



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EMONS GROUP

2WIN



Emons is a 75 year old logistics group with the spirit of a new company.

Our mission is to move our customers towards zero waste with ongoing innovation.

At Emons, we have been delivering innovative and sustainable road freight solutions to Europe's leading manufacturers for more than 75 years. As a family business, we believe in concepts and generations instead of commodities and quarters.

Relying on our employees, data technology and process digitisation, we move our customers towards cost leadership, endless innovation and zero waste. We are aware of how the rapidly changing circumstances within the market are creating new expectations for conducting business whilst taking responsibility for the environment.

And we couldn't be more pleased to make real positive changes to the supply chain and to our corporate responsibilities and those of our clients. Let's do it, think differently, clear the table and really break from the norm.

By thinking boldly and acting more sustainably, we're future-proofing our business while creating long term value for all of our stakeholders.

Daan Emons
CEO, EMONS GROUP



In recent years we have achieved ...

7 million+ kilometres saved,
13 million+ Kgs CO2 saved,
10 000+ multimodal crossings,
250+ happy customers,
100+ planted trees.

What if you could contribute to this, and ...

... lower your freight costs,
... increase your loading capacity by up to 63%,
... decrease your transport movements and administration,
... be innovative in your supply chain,
... be more sustainable and help save our planet,
... have fun?

It takes an alternative **2WIN**.

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- Sustainability Reports
- Innovation Research
- Loyalty Programmes





2WIN FORMULA

CO2 EMISSIONS

When delivering cargo by road, the Emons Cargo 2WIN double deck trailer solution is a proven formula which offers your carrier base an alternative 2WIN. It has most of Europe covered and can support your freight flows in various ways. You can start reducing unnecessary trips and kilometres on the road immediately.

Our double deck 2WIN trailers by can move up to 54 euro pallets, 40 industrial pallets or 92 roll cages per trip.

In practice, this means that **two of our 2WIN-trailers can replace three standard trailers.**

UP TO

40%

CO2 REDUCTION

691 KG

CO2 SAVED PER 1000KM



You are most likely to make the optimum savings and gain **up to 63% more volume per trip**, if you recognise any of the trends below within your supply chain:

- you serve FMCG - goods with high and frequent shipping volumes,
- loads on pallets, in roll cages or even loose loads, which are non-stackable,
- loading units with a height between a minimum of 1.30 metres and a maximum of 1.80 metres,
- freight with a maximum payload of 21.5 tons, or 395 kg per pallet,
- freight on long (cross border) lanes, with high route costs like CO2 taxes, tolls, ferries or trains.

With the growth of your company, your need for transport will continue to increase. With higher loading volumes on each trip, you help to save the environment by applying better transport efficiency. You will be achieving higher efficiency while limiting emissions (Fig 1).

63%

MORE VOLUME PER TRIP

389

**LESS TRAILERS
PER 1000 TRIPS**

33%

**LESS TRANSPORT
MOVEMENTS**

21

**MORE EURO PALLETS
PER TRIP**

Emissions (kg)	Standard trailer	vs.	2WIN trailer
Nox	23.8		11.2
HC	3.3		1.5
CO	11.6		5.2
PM	0.5		0.2
Co2	1623		932

**Emissions
saving (%)**

53%

56%

55%

62%

43%

Fig 1. Emissions comparison; equivalent of 2WIN to a standard trailer on a 1000 km trip.



NETWORK OPTIMISATION

Supply chain optimisation is one of our key everyday goals. To achieve higher levels of sustainable, we are always paying close attention to our own European freight network.

With more than 150 trucks on the road we believe there's always an opportunity 2WIN. Despite this, we have noticed that a willingness to optimise often falls by the way, even where there are multiple opportunities to make real change. There is no intrinsic motivation, a lack of time, no access to technical data or resources to give a reason to break from the norm.

To reduce costs by avoiding driving empty kilometres as much as possible (and to avoid unnecessary damage to the environment), our team of logistics engineers work on:

Automation

When it comes to optimising part of a supply chain, automation is your best friend. We aim to continuously deliver innovative and workable insights on data, freight routing and fleet maintenance.

For example:

- GPS trackers with real-time data algorithms,
- Fuel optimisation programmes,
- Proactive ongoing fleet maintenance.

Integrated solutions

An optimised transportation network is full of visibility and transparency. GPS tracking and smart tracking devices provide us with complete access to data on the location and condition of each individual shipment. All of these solutions are integrated within our overall freight management solution.

Combining historical data with future forecasting

These days historical data is just one piece of a fully optimised transportation network. By knowing what historical data is relevant, while at the same time being able to combine it with real time information, we are able to build a more accurate forecast. This reduces the amount of kilometres driven empty, makes automated planning possible and prevents manual mistakes.



EQUIPMENT IMPROVEMENTS

Ongoing innovation is an essential part of our future. Years ago our research and development department started to look into all possible improvements which would help save the planet, such as; multi-modal solutions, LNG trucks, integrated solar panels & boat tails and expected in 2021, the 2WIN ECO-Combi.

Multimodal solutions

To find the best route for your products we constantly look at elements like costs, service and sustainability. Multi-modal solutions like trains and unaccompanied ferry traffic are key to getting on track on our road towards zero waste. If freight conditions (transit, cost, etc.) are suitable, our current policy is that we choose a green solution as often as possible.

Liquid Natural Gas (LNG)

The use of LNG trucks and this alternative fuel allows us to further reduce CO2 emissions which is good for the environment. Future possibilities include Bio-LNG and Hydrogen solutions.

2WIN ECO-Combi

Based on the success of 2WIN, we are now involved in the full development of the 2WIN ECO-Combi. With a maximum length of 25.25 metres, the ECO-Combi trailer is the longest combination allowed within central Europe. Instead of two conventional trailers, Emons is working on a double 2WIN trailer solution where the total amount of E-pallets can be 100+ (depending on the type of ECO-Combi, country regulations and the maximum weight allowed in a country). Testing is expected at the beginning of 2021 and the environmental benefits will be huge.



MOBILE SOLAR PARK

Solar panels

Several of our 2WIN trailers are fitted with solar panels and boat tails. The idea behind this is to generate clean energy which can be used by all electronic devices in and on our truck. For example the PDA, the Electric Pallet Truck (EPT) and the battery that operates the tail-lift. This saves fuel and therefore natural resources.

Boat tails

At the same time, we also are testing boat tails on the back of our trailers. These optimise aerodynamics, reduce air resistance and lead to fuel savings and a reduction in CO2 emissions.



"It is important that as our business grows, we ensure that safety and the environment remain paramount.

The 2WIN concept supports this."

Primark, I. Hicks



FUEL SAVING

Fuel consumption control is important, not only from a financial perspective to keep our prices competitive, but also from environmental and safety perspectives.

Economical driving helps to reduce CO2 emissions. With sustainability high on Emons Cargos' agenda, we are introducing trucks which run on Liquefied natural gas (LNG), producing lower CO2 emissions. This results in a 25% reduction in CO2 emissions in comparison with traditional heavy fuels.

Fuel consumption depends on many different factors, ranging from the efficiency of the engine, through to the condition of the tyres, the aerodynamics of the vehicle and so on. Control over these factors allow us to maintain vehicles in good condition for many years. Our 2WIN fleet undergoes regular maintenance as suggested by the trailer manufacturer.

Finally, we aim to achieve a driving style that is as economical as possible. We teach good driving practices through, for example, checking and evaluating braking distances, acceleration and cruise control. Through this, fuel consumption can be reduced, and thus the efficiency of the entire fleet increases. To motivate the drivers, a reward system is in place for their efforts in helping the environment, which is now being expanded with more driver training and e-learning programmes.



E-LEARNING

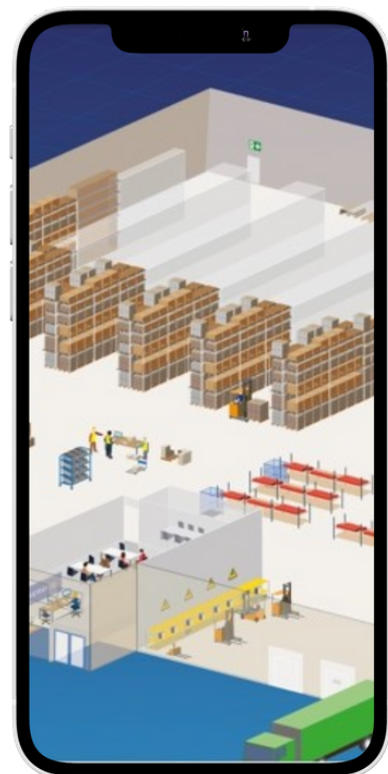


We achieve a major part of our savings via our most valuable assets - our employees and their ways of working. Therefore, continuous coaching and auditing keep our business optimistic about the future.

In line with our value of continuous innovation and sustainability, we have committed to the education of our employees in order to safeguard Quality, Health & Safety and the Environment (QHSE). To make a significant impact, this applies to everyone in the company – from the maintenance staff through to the drivers, account managers and the Board of Directors.

We are currently enhancing our education model by digitising and personalising training modules, which will be aimed at competencies and skills beneficial for a given position. All employees will not only have basic modules to complete, but also further opportunities for their own self-development. They will be encouraged to contribute through a point-based rewards system.

To allow everyone to learn anywhere, anytime and in a more sustainable digital manner, we are in the process of developing an e-learning platform which will include gamification and digital nudging elements.



DRIVER COACHES



To support our drivers, we have several driver coaches who are responsible for training, coaching and guiding test shipments for new customers.

As 2WIN is not a standard trailer, all drivers are trained thoroughly before going to work. They experience the (un)loading process and are intensively trained in a new way of driving. This programme encourages our professional drivers to adopt more energy-efficient driving behaviour by driving smarter. The results are not only beneficial cost-wise, they also contribute to a greener world!

Some **advantages** of our training programme:

- Fast start on the job implementation,
- Drivers feel comfortable behind the wheel,
- Safer driving,
- Considerable savings on fuel costs,
- Less tyre damage,
- Less accidents and damage,
- Contributing to a better environment.



QHSE QUALITY, HEALTH, SAFETY AND ENVIRONMENT

Our QHSE department supports Emons Cargo business processes by creating a safe and healthy workplace while ensuring compliance with regulations. They also pay attention to creating strategic support for QHSE within the Emons organisation by constantly setting high standards.

Right from the design phase of the supply chain, our team of specialists supervises all processes and regulations. Emons' quality management system is ISO 9001:2015 certified by TÜV. The processes are supported by risk analyses and are subjected to regular audits of an internal and external nature. Incidents are recorded and QHSE agreements are transferred to our employees via feedback, coaching, customised E-learning modules.

ECO-FRIENDLY BUILDING

When visiting our headquarters in Milsbeek, The Netherlands, you will immediately recognise our 2WIN trailers. Innovative, characteristic and state of the art in sustainability.

In line with Emons' sustainability strategy, our head office was designed in a completely CO2 neutral way and is built from sustainable building materials. No concrete was used, and it is also worth mentioning that it is equipped with a large facade of photovoltaic solar cells for providing energy, it uses geothermal energy for cooling and heating, it has triple glazing and, above all, in the hallway there is a 12 metre high green wall of indoor plants.



INNOVATION RESEARCH

Emons Cargo 2WIN strives to be a pioneer of innovation in sustainable logistics. We have an in-house data team that is searching for diverse possibilities across our transportation network - efficient load bundling, load building and fleet optimisation. These projects rely on constant new research and innovation.

To reinforce the Paris agreement (to strengthen the global response to the threat of climate change by keeping the global temperature rise this century well below 2 degrees Celsius), Emons Cargo has been invited to participate in a unique research group. In cooperation with the Dutch Government, several Technical Universities and Research Institutes will deliver best practice in Digital & Sustainable Logistics. This allows Emons Cargo 2WIN to be increasingly proficient in machine learning, AI, modelling and making cost and performance analyses.

Through digital visibility and BI tooling, we are able to make better and faster decisions, quickly identifying critical business problems and create analytical/modelling solutions. This high-tech collaboration has led to many projects such as glass-load-optimisation; Bot vs Planner; AI in tendering; scrapping platforms, data governance and data management.



UNIVERSITY
OF TWENTE.

ROC NIJMEGEN


Fontys
University of Applied Sciences

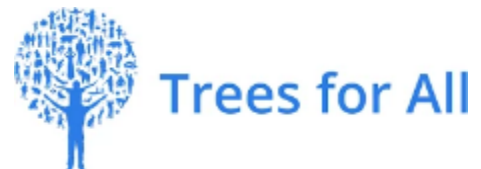


LOYALTY PROGRAMMES

One year ago we launched the 'Making Connections' campaign. The goal of this campaign is to establish and maintain connections with all sides, from customer to employee. Therefore, we started up several programmes internally where we, together with our ambassadors, achieve great things in digitisation, improvements and projects to protect the environment.

Our **Trees4all** loyalty programme was developed to make an additional contribution to compensation for our CO2 emissions. Every year, 10 billion trees disappear. The consequences of this for people, animals and the climate are disastrous. That is why we invest in trees. How do we do that? We plant trees and restore existing forests, as well as make people aware of the importance of trees.

We also support:





Sustainability report
Emons Cargo 2WIN

January 2021

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