

SUSTAIN ABLE

How DHL is reducing its greenhouse gas emissions.

Which emission reduced solutions customers can use.

How DHL makes reporting easy for companies.

















TIME TO DELIVER

Climate change is an urgent issue that demands immediate action. At DHL Group, we are committed to addressing this challenge head-on. This brochure highlights the concrete steps we are taking to reduce our environmental footprint and the sustainable solutions we offer our customers.

Transitioning to a low-carbon economy quickly is essential. While logistics is inherently carbon-intensive and new technologies can be costly, we are focused on implementing what is technically feasible and commercially viable now.

We don't wait. We are taking decisive actions across all areas of our operations and investing ahead of the curve to encourage supplier innovation and scale sustainable solutions.

Our efforts are aimed at offering emission reduced logistics. We invite you - our customers, policymakers, industry peers, and partners - to join us in taking action now. Together, we can drive the change needed for a sustainable future.

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Find out everything about our sustainability approach here.



1 Facilities GHG emissions Scope 1 and 2 for the last 3 years on average. | 2 Also includes locations that are only certified according to one ISO. | 3 In accordance with the internal DHL Group framework (based on the World Green Buildings Council's guidance, certified by SGS). Deviations permitted in justified exceptional cases.

Figures

SUSTAINABILITY IN FIGURES

Every year is an important step towards low-emission logistics.

GREENHOUSE GAS (GHG) EMISSIONS (WELL-TO-WHEEL)

Million metric tons CO_e

34

29

2030³

40

Year

3ase '

E-vehicles in service for pickup and delivery

2021¹



2024²

ALTERNATIVE DRIVE SYSTEMS FOR THE ROAD VEHICLE FLEET



Unless otherwise stated, the figures refer to the year 2024.

CUSTOM-FIT SOLUTIONS

Best Practice





automation - that combines air and sea transport, reducing GHG emissions by 20%.

We are walking the path of decarbonization with our customers across transport modes and countries around the world. The results speak for themselves.

2024 season of Formula 1 to a total of 37 trucks, achieving an average reduction of GHG emissions of 83% per truck compared to its diesel fueled counterpart.

5









RYTLE TRILI





TARGET Electrify more than 2/3 of our pickup and delivery vehicles by 2030



MAXUS EDELIEVER 3

SCOOTER GOUPIL TYPE







We aim to keep greenhouse gas emissions as low as we can when picking up and delivering shipments to end customers. With more than 42,000 electric vehicles, we have the largest e-fleet of any logistics company globally. In ad-dition, we deployed 13,000 e-trikes and 4,100 e-bikes in 2024.































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Find out everyt-hing about our e-fleet here.













Line Haul

Electric power is the most sustainable longterm solution for heavy duty truck – however we also need alternative technologies to reduce greenhouse gas emissions now.

Line Haul

YOUR RO **HVO Bio-CNG/-LNG** Rail TO HVO (Hydrotreated Vegetable Oil) A natural gas produced is produced from used cooking oils from anaerobic digestion of and other organic waste materials. organic waste, it is typically It can be blended and used in diesel either LNG (liquid) or CNG engines in selected countries. (compressed). remaining distance by truck. NET **GHG Emissions Reduction GHG Emissions Reduction GHG Emissions Reduction** 80% 80% 80 - 100% Up to ZERO at DHL Supply Chain UK due to depending on the per DHL freight train the switch from diesel to HVO feedstock compared to road transport

In road transport, we are achieving short-term emission reductions while promoting and piloting long-term emission reduced technologies.



ightarrow Conversion of all DHL onsite fuel bunkders for DHL supply Chain in Ireland and UK \rightarrow 20 million liters of HVO in 2024 for DHL Supply Chain in Ireland and UK

Best practice

 \rightarrow 200 HVO trucks in Sweden Freight network

ightarrow Our Green fuels route planner

 \rightarrow Expansion of own fuel station infrastructure

ration for Tesco in Ireland ightarrow 400 trucks in Post &



Best practice

 \rightarrow 50 BioCNG vehicles in ope-Parcel Germany network





More than 250,000 routes for DHL Group in Europe are multimodal. This means that shipments are transported as far as possible by rail and the

Battery-powered electric vehicles are the most energyefficient option among the lowemission solutions. Grid capacity is the main hurdle here.



checks whether routes can be converted to green fuels and alternative drives.

ightarrow Increasingly shifting volumes from road to rail ightarrow 250,000 multimodal routes in the EU

Best practice

ightarrow 35 to 41 containers each week on rail from Asia to Germany and Great Britain for adidas ightarrow 8 trains per week for P&P

Best practice \rightarrow Volvo FL Electric 16t Delivering to Fashion retailers in the City of London (100km/day)





TARGET

Increase sustainable fuels and electrification share to >30% by 2030.



Hydrogen

Battery Electric

Hydrogen vehicles offer impressive range and quick refueling over longer distances, but still need to be trialed.

GHG Emissions Reduction

100% if the power comes from renewable sources

GHG Emissions Reduction

100% Un to when producing hydrogen with electricity from renewable sources



ightarrow More than 50 electric trucks from 7.5 to 60 tons in use in Europe and the USA ightarrow Test and implement Electric Range Extender Solutions to bridge gaps in charging infrastructure



ightarrow DHL Freight is testing the hydrogen combustion engine and fuel cell technology ightarrow First hydrogen pilot successfully completed (27t Box Body Rigid with mobile H2 refueler)

Best practice

ightarrow 2 hydrogen fuel cell trucks deployed by DHL Supply Chain for Diageo in US

Air Transport

In 2024, we utilized 74 kilotonnes (kt) of Sustainable Aviation Fuel (SAF) within our own fleet, ranking as the third largest airline in terms of absolute volume consumed. This represents a blending ratio of 3.5% in our aircraft, the highest among the top three global users of SAF. Furthermore, we collaborate with our carrier partners to enhance the utilization of significant volumes of SAF in our Scope 3 air transport operations.



Air & Ocean

The greatest potential and the greatest challenge lie in decarbonizing air and ocean transport. While we support innovative technologies, sustainable fuels will play a fundamental role in the coming years.

Benefits

All you need to know about SAF

Sustainable Aviation Fuel (SAF) is an aviation fuel made from sustainable feedstocks such as used cooking oil and other residues. **We focus on fuels with external sustainability certification.**

SAF can reduce emissions by **around 80%** over the entire life cycle compared to conventional jet fuel.

Up to 50% SAF content can be blended into conventional jet fuel without the need to convert aircraft.

Battery electric and hydrogen technologies are being researched, however there is no alternative to hydrocarbon based fuels on the horizon for long distance flight. **Scaling up SAF is critical because** \rightarrow SAF is available at short term. \rightarrow SAF can use the existing infrastructure.

Challenges

The waste oils need for SAF is very limited and costly. Alternative feedstocks might make sense if not competing with food production.

SAF currently accounts for **less than 1%** of all aviation fuels consumed.

Planned production capacities will provide **1-2% of jet fuel** demand by 2027.

Our challenges:

 $\begin{array}{l} \longrightarrow \mbox{ We want to make SAF available} \\ \mbox{to our customers on a long-term} \\ \mbox{and predictable basis.} \\ \longrightarrow \mbox{ We want to ensure that our SAF is} \\ \mbox{made from sustainable feedstock.} \\ \mbox{ } \mbox{ We want to reconcile sustainability} \\ \mbox{and economic efficiency.} \end{array}$

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Find out more about SAF solutions here.

Actions

Buying the SAF currently available is essential for us. In addition, with GoGreen Plus we **help customers meet their Scope 3 targets.** GoGreen Plus uses 'book & claim' to track and transfer the emission reductions from sustainable fuels across the value chain.

We sign multi-year contracts to partner with SAF producers such as World Energy, Neste, BP and Envision to secure supply.

In 2023, we sourced 14% of global SAF supply for our own aircrafts, In 2024, we have increased the blending ratio to 3.5% - **one of the highest among global airlines**

To decarbonize aviation, we have a clear list of further measures:

 \rightarrow Accelerated re-fleeting by investing in the latest technology of most fuel-efficient aircrafts \rightarrow Implement fuel optimization program with multiple measures

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TARGET

>30% share of sustainable fuels in air and ocean by 2030.



5 things you need to know about Sustainable Marine Fuel (SMF)

Sustainable Marine Fuel (SMF) can reduce GHG emissions by **85%** (green ammonia and other power-to-liquid fuels can be up to 100%) compared to conventional marine fuels.

SMF are naturally low in sulphur and produce **fewer air pollutants** such as sulphur oxide.



3

To procure reducations leveraging SMF, we rely on our **network and strategic partnerships** in the industry.

GoGreen Plus leveraging SMF can be selected for LCL (less than container load) and FCL (full container load) shipments via **myDHLi Quote + Book** or via your DHL Global Forwarding account manager.

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Swedish fashion brand Lindex was the first company booking **GoGreen Plus for FCL Ocean Freight** – thereby a pioneer in low emissions fashion logistics.



POWERHOUSE One part of the supply chain that should

not be overlooked is the warehouse footprint.

We deploy energy-efficient technologies,

emission reduction alternatives.

energy from renewable sources and other

Buildings

TARGET

All new owned buildings carbon neutral'

Environment

ightarrow Biodiversity \rightarrow Rainwater harvesting ightarrow Low water use buildings

Building automation and measurement

- ightarrow Enhanced building automation
- ightarrow Main meter energy monitoring ightarrow Sub meter advanced
- energy monitoring

Heating and cooling

- \rightarrow Efficient HVAC (Heat pumps)
- \rightarrow Natural ventilation, automated control \rightarrow Sun protection/
 - shading
- \rightarrow Efficient dock seals
- \rightarrow Rapid rise doors

pared to a baseline where fossil energy is used for ele solar PV, and the deployment of energy efficient tech

Renewable Energy

 \rightarrow Solar panels (PV) ightarrow Solar ready roof ightarrow Battery storage ready ightarrow Purchased renewable energy from the grid

Efficient lighting

ightarrow LED lighting with smart control system ightarrow Vertical skylights

Electricity

- ightarrow Charging stations for operating vehicles
- ightarrow Charging stations for
- e-vehicles (cars)
- \rightarrow Efficient transformers

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the additional 15 advanced levers here.

WE HANDLE YOUR SCOPE 3

From direct fuel switching to innovative technologies, our logistics solutions can support the decarbonization of your Scope 3 emissions - the choice is yours.



DHL's logistics service supports the decarbonization of our customers' Scope 3 emissions.

The Greenhouse Gas Protocol (GHGP) Corporate Standard classifies a company's emissions into three ,Scopes'.

Scope 1 covers the **direct emissions** a company produces through their own operations or sources they have control over.

Scope 2 covers the **indirect emis**sions associated with the company from the generation of the electricity and heating energy they purchase and use.

Scope 3 includes all the other indirect emissions that occur in a company's value chain – including any up- or downstream emissions from transportation and distribution.

GoGreen Plus

REDUCING **CUSTOMER EMISSIONS**

To support our customers' decarbonization efforts, DHL introduced GoGreen Plus in 2021. GoGreen Plus products are based on true value chain decarbonization – insetting – rather than carbon compensation or offsetting.

The mechanism we employ for our insetting products is called 'book & claim'. Book & claim enables us to directly replace fossil fuels with sustainable fuels within our network and allocate environmental benefits to paying customers, even when their shipments are not physically transported with the assets using these fuels. This means we can help reduce the environmental impact throughout our own supply chain, in the air, across the ocean, and on the road. We can also provide solutions for dedicated local operations in warehousing and transportation.

Overview of GoGreen Plus products & services



Insetting via GoGreen Plus products Insetting enables us to directly replace fossil fuels with sustainable fuels. We thereby help to fight climate change along our supply chain.

Ocean freight





Solutions for dedicated local operations



Warehousing Solutions



Dedicated Transport

DHL approach to insetting

Reduction within our network can be attributed to individual shipment



GoGreen Plus services offer you a number of key benefits:



You may share our determination to reduce your GHG emissions and our belief that it is worth paying a premium to achieve this. GoGreen Plus enables you to act on this belief.

You have decarbonization targets you need to hit, GoGreen Plus can play an important role in helping you.



You are reporting your Scope 3 emissions, the 'book & claim' mechanism and the certificates we issue are proof points to support your reporting.

You can communicate your use of GoGreen Plus and the benefits of using it to your own customers, enhancing your reputation an increasing the willingness of your customers to pay a premium too.

Reporting

THE BOTTOM LINE

We not only take the transparent reporting of our own emissions very seriously, but also support our top 100 global customers in doing so.





Annual, quarterly or

monthly breakdown

EMISSION REDUCED SOLUTIONS: YOUR CHOICE

Covering your end to end supply chain: we offer emission reduced products in all our divisions.

SUSTAINABLE SOLUTIONS FOR PARCELS AND DOCUMENTS (INCLUDING EXPRESS SHIPPING)

Express GoGreen Plus



Mail and Parcel Germany Business Customers GoGreen Plus



eCommerce Parcel Domestic and Cross-Border GoGreen Plus



SUSTAINABLE CONTRACT LOGISTICS SERVICES

Carbon Neutral Warehousing



Sustainable Transport



Sustainable Packaging



SUSTAINABLE SOLUTIONS FOR FREIGHT TRANSPORTATION

Air Freight GoGreen Plus



Ocean Freight GoGreen Plus



Road Freight GoGreen Plus



Rail Freight (and Multi-Modal Solutions)



GoGreen Optimization



EMISSION TRANSPARENCY LOGISTICS SOLUTIONS

DHL GoGreen Dashboard



DHL Carbon Calculator



Carbon Reports for Business Customers



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Our new sustainability website provides insights and resources on sustainable logistics at a glance.

- Discover our emission reduced products portfolio.
- ightarrow See how DHL customers work towards their
- sustainability targets. → Learn more about emission reduced logistics.



THE WHOLE STORY

Road to Rail shift

Decarbonize now – we are looking at every link in the supply chain and finding ways to reduce the emissions and make sustainable solutions commercially viable.



Sustainable Marine Fuels

Sustainable

Aviation Fuels

B

Multimodal Solutions

More efficient networks Before we take a step **forward together** - maybe a step back will help you to learn more about sustainable logistics first? We've provided everything you need to know to get started - from industry terminology to information on the latest decarbonization technologies.

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Find out more about our emission reduced logistics here.

If the idea of decarbonizing your supply chain with DHL interests you:



1. Select GoGreen Plus per shipment (manually) when creating a shipment in our shipping applications. Ideal for ad-hoc transactions.



2. Immediately start to reduce the GHG emissions associated with all your shipments using our standard emission reduced product offerings with a simplified pricing model and pre-set GHG reduction percentage. Most suitable for volume shipping.



3. A customized offer based on your exact reduction targets and shipping profile. Offering you the full flexibility and multiple investment and billing options, including joint development of a tailored emission reduced logistics solution. Reach out to your sales representative to find out more.

Your DHL contact



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Find out more about our emission reduced logistics here.