

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.

Contents

- 4 Figures / Best practices
- 6 Pickup and delivery
- 8 Line haul
- 12 Air and Ocean
- **16** Facilities
- **18** Scopes 1-3
- 20 GoGreen Plus
- 22 Reporting
- 24 Emission reduced solutions
- 26 The whole story







Energy used from renewable sources1



renewable sources1

60% Electricity from certified sites



new owned buildings carbon neutral^{1,3}

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.

(ISO 14001 and 50001²)

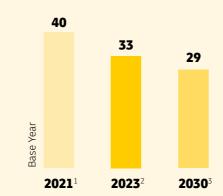
Figures

SUSTAINABILITY IN FIGURES

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

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

Million metric tons CO₂e



1 Includes the effect from the acquisition of the Hillebrand Group in fiscal year 2022, recognized starting in the 2022 Annual Report. 2 From financial year 2022 including reduction effects from market-

2030

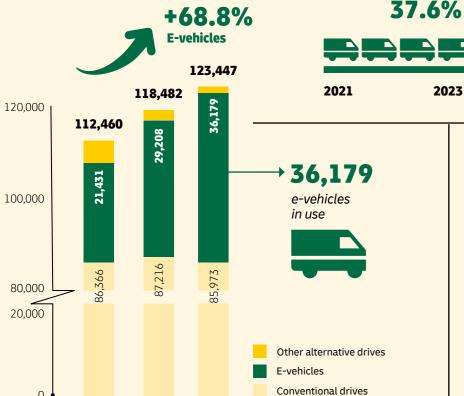
ALTERNATIVE DRIVE SYSTEMS FOR THE ROAD VEHICLE FLEET +68.8%

2021

2022

E-vehicles in service for pickup and delivery

2023



2023



25,300

bicycles of which

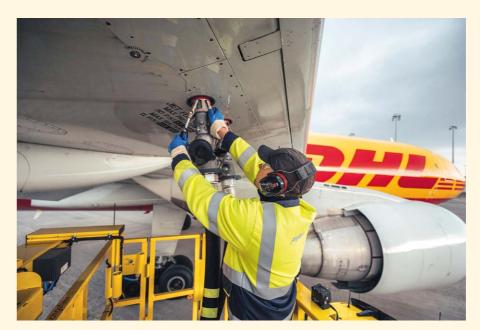
14,000 5,500 5.800 e-bikes e-trikes bikes

Unless otherwise stated, the figures refer to the year 2023

CUSTOM-FIT SOLUTIONS

Best Practice

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



MYTHERESA

Our partnership with luxury e-commerce platform Mytheresa enables a reduction of 27,000 metric tons of CO2e emissions over five years using Sustainable Aviation Fuel (SAF) through our GoGreen Plus service instead of conventional jet fuel.



CLAIRE'S ACCESSORIES

METRIC TONS RECYCLED WASTE PACKAGING

Together with our customer Claire's Accessories, we have implemented an onsite closed loop packaging solution to recycle cardboard packaging waste and turn it into base cartons for their new stock.

→ dhl.com/sustainability



Find more customer stories

GoGreen

For drugstore chain dm, we send 10.2 million parcels and 10.7 million advertising mailings per year using GoGreen Plus, delivering an annual reduction of 7.000 metric tons in CO₂e in 2023.



SCHNEIDER ELECTRIC

20%

We designed a multimodal shipping solution for Schneider Electric - a world leader in energy management and automation - that combines air

FORMULA 1

We doubled our fleet of biofuel-powered trucks for the 2024 season of Formula 1 to a total of 37 trucks, achieving

5

and sea transport, reducing an average reduction of GHG emissions of 83% per truck GHG emissions by 20%. compared to its diesel fueled counterpart.

based processes. I 3 Subject to potential restatement due to methodology updates or changes in business scope, e.g. due to M&A.







MEET **E-FLEET**





TARGET







We aim to keep greenhouse gas emissions as low as we can when picking up and delivering shipments to end customers. With more than 36,000 electric vehicles, we have the largest e-fleet of any logistics company globally. In addition, we deployed 14,000 e-trikes and 5,500 e-bikes in 2023.





























Find out

everything





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

YOUR











HVO

Bio-CNG/-LNG

Rail

Battery Electric

Hydrogen

TO NET ZERO

HVO (Hydrotreated Vegetable Oil) is produced from used cooking oils and other organic waste materials. It can be blended and used in diesel engines in selected countries.

A natural gas produced from anaerobic digestion of organic waste, it is typically either LNG (liquid) or CNG (compressed).

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 remaining distance by truck.

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

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

GHG Emissions Reduction

the switch from diesel to HVO

80% at DHL Supply Chain UK due to **GHG Emissions Reduction**

Up to **80%** depending on the feedstock

GHG Emissions Reduction

80 - 100% per DHL freight train compared to road transport

GHG Emissions Reduction

100% if the power comes from renewable sources

GHG Emissions Reduction

100% when producing hydrogen with electricity from renewable sources

In road transport, we are achieving short-term emission reductions while

promoting and piloting

reduced technologies.

long-term emission



What we do



What we do



What we do





 \longrightarrow DHL Freight is testing the

hydrogen combustion engine and

fuel cell technology

 \rightarrow First hydrogen pilot successful-

ly completed (27t Box Body Rigid

with mobile H2 refueler)

Best practice

ightarrow Our Green fuels route planner checks whether routes can be converted to green fuels and alternative drives.

 \rightarrow Conversion of all filling stations for DHL Supply Chain in Ireland and UK ightarrow 600 million liters of HVO in 2023 for DHL Supply Chain in Ireland and UK

→ Expansion of own fuel station infrastructure

ightarrow Increasingly shifting volumes from road to rail

→ 250,000 multimodal routes in the EU

→ More than 50 electric trucks from 7.5 to 60 tons in use in Europe and the USA

→ Test and implement hybrid solutions with modular range extender technologies

Best practice

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

→ dhl.com/delivered



Find a deep dive into line haul decarbonization here.

Best practice

 \rightarrow 200 HVO trucks in Sweden Freight network

Best practice

 \rightarrow 35 vehicles with bioLNG for Marks & Spencers → 400 trucks in Post & Parcel Germany network

Best practice

→ 35 to 41 containers each week on rail from Asia to Germany and Great Britain for adidas

→ 8 trains per week for P&P

→ Volvo FL Electric 16t in the City of London (100km/day)

Delivering to Fashion retailers





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

- → SAF is available at short term.
- ightarrow 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:

- → We want to make SAF available to our customers on a long-term and predictable basis.
- \longrightarrow We want to ensure that our SAF is made from sustainable feedstock.
- → We want to reconcile sustainability and economic efficiency.

→ dhl.com/delivered



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, achieving a ratio of 3.2% – the highest of any global airline.

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

- → Accelerated re-fleeting by investing in the latest technology of most fuel-efficient aircrafts
- → Ordered up to 12 all electric Alice cargo aircrafts to be in operation from 2027 onward
- ightarrow Implement fuel optimization program with multiple measures

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.

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.

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







POWERHOUSE

Buildings

One part of the supply chain that should not be overlooked is the warehouse footprint. We deploy energy-efficient technologies, energy from renewable sources and other emission reduction alternatives.

TARGET

All new owned buildings carbon neutral

Renewable Energy

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

Environment

- \rightarrow Biodiversity
- ightarrow Rainwater harvesting
- → Low water use buildings

Building automation and measurement

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

Efficient lighting

- → LED lighting with smart control system
- \rightarrow Vertical skylights

Electricity

- → Charging stations for operating vehicles
- → Charging stations for e-vehicles (cars)
- → Efficient transformers

Heating and cooling

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

→ dhl.com/delivered



Explore 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 emissions** 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.

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.

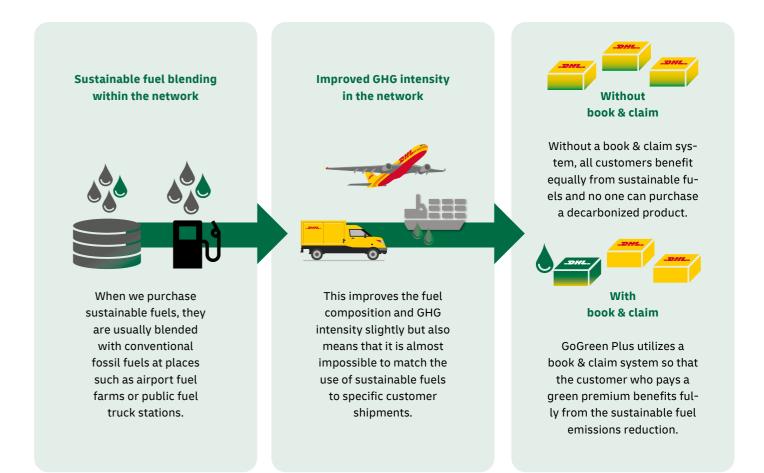
The mechanism we employ for our insetting products is called 'book & claim'. Book & claim enables us to directly replace fossil fuels with sustainable fuels within our network and allocate environmental benefits to paying customers, even when their shipments are not physically transported with the assets 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



DHL approach to insetting

Reduction within our network can be attributed to individual shipme



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.

2

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.

4

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. © \$ ± ? & 📳 Deutsche Post Q GoGreen Dashboard Stark Industries Q Search b □ < □ < c o ★ Chat in Teams 🕝 Subscribe to report ... ☐ File ∨ 🕾 Share DHL GoGreen Dashb Annual Quarterly Monthly [DEMO] Total Emissions in kg COse DHL Group Business Unit All Period Multiple selections V Customer Stark Industries Direct export of report & data tables in multiple formats **Emission Intensity Transport** Well-to-Wheel 59.48% ▼ 83.09% 59.22% ▼ Tank-to-Wheel in g CO2e Well-to-Wheel / tonne-km Origin & Destination 100 84M 45.88 100 37.80 Monthly data update & QTD in M QTD in M QTD customizable periods Input Data Types 93.29 **55** 112.49 Q1 PY QTD in M PY QTD in M PY QTD Breakdown by Customer Division (Top 5) Main Haul Transport Mode **DHL Group Business Unit** Input Data Type Well-to-Wheel, QTD Well-to-Wheel, QTD Well-to-Wheel, QTD QTD 3M 1M -5M _QM -Hot Cup Coffee Barstow Electronics 10M **Dashboard structure** pane for deep-dives into GHG emissions & shipments, origin & Accutech 0M destination, data tab-Air Ocean Road Facility Rail (Blank) Global F... ●Express ●Freight ●Supply ... ▶ Primary Model Default le, two-dimensional analysis, top lanes, © DHL Group. All rights reserved. Data is subject to change throughout the year | Latest data available from Jun 2024 Disclaimer ? input data types ← Go bac **Total GHG emissions** figures, compliant with **Consolidated GHG** ISO14083 Standard

and Global Logistics

Emissions Council

(GLEC) Framework

Total figures above broken down - enhanced reporting insights, such as emissions across transport modes, lanes, and DHL products.

→ dhl.com/campaign



Find out everything you need to know about the dash-

emissions information from all divisions of DHL Group in a standardized format.

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



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



→ dhl.com/sustainability

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

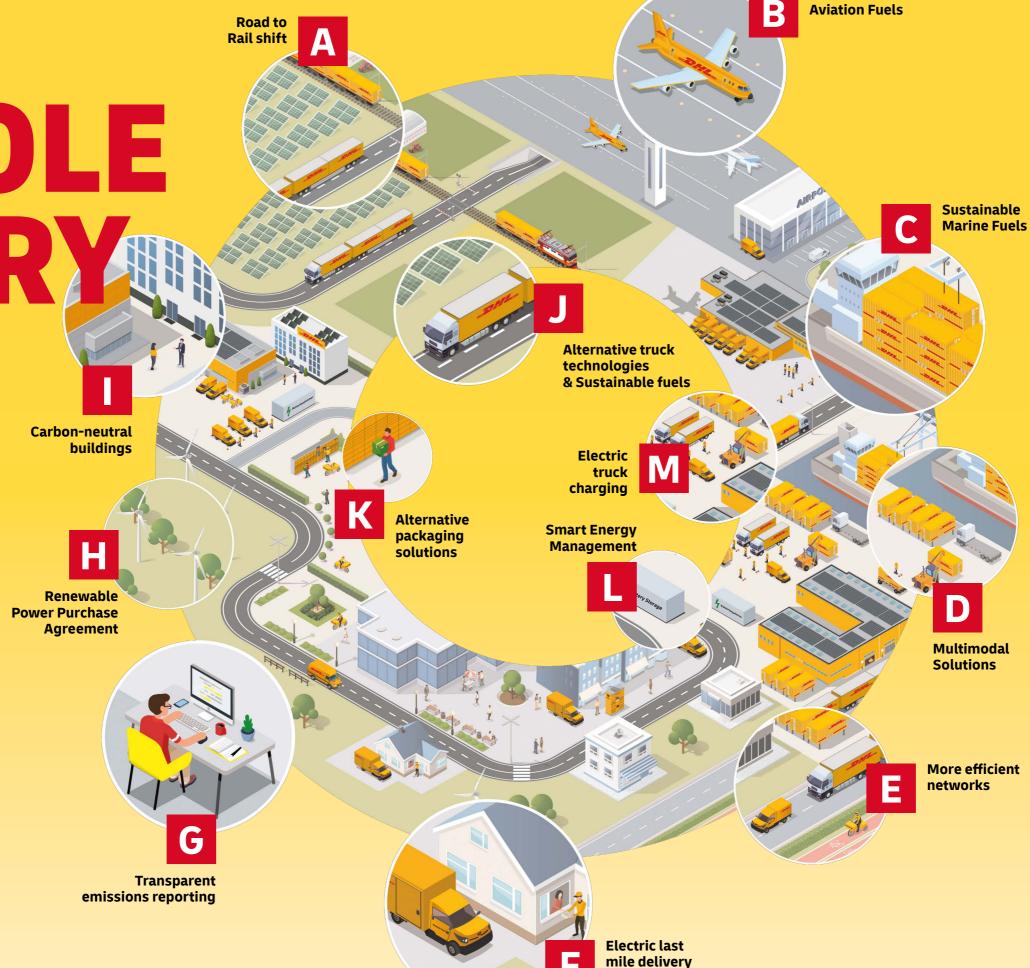
- Discover our emission reduced products portfolio.
- → See how DHL customers work towards their sustainability targets.
- → Learn more about emission reduced logistics.



THE WHOLE STORY

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.



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.

→ dhl.com/sustainability



Sustainable

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







Find out more about our emission reduced logistics here.