

Welcome to the User Guide of the DHL GoGreen Dashboard

We have developed this guide to take you through **the DHL GoGreen Dashboard** to help you understand **how to use it** for your **reporting needs** and **business decision making**



Introduction to logistics carbon reporting

- · What is logistics GHG emissions reporting?
- What data do we report on and how does it relate to international standards?



Introduction to the DHL GoGreen Dashboard

- DHL GoGreen Dashboard: key capabilities and features
- · Carbon emissions metrics reported via the DHL GoGreen Dashboard
- Data availability across all DPDHL business units



DHL GoGreen Dashboard content & layouts

- Walk-through of the overall structure of the dashboard
- Explanation on how to navigate and interpret the dashboard content



Tool functionalities & detailed instructions

- · Overview of all functionalities of the DHL GoGreen Dashboard
- Step-by-step instructions on how to find & use them



FAQs

Answers to most frequently asked questions / issues

INTRODUCTION TO LOGISTICS CARBON REPORTING



Introduction to Logistics Carbon Reporting



Why do organizations disclose and report customer carbon emissions?

- Most large organizations measure their greenhouse gas (GHG) emissions footprint caused by their business services, products or processes to **estimate their climate impact**
- To reach **Paris Agreement** climate targets, it is increasingly crucial to **reduce GHG emissions** along the **supply chain**, especially in **logistics operations** (i.e. transportation, handling and upstream emissions from fuel and energy production)
- To achieve this, **transparency on emissions data** is key, hence carbon reporting is growing in importance
- Main **challenge** most companies are facing is with **emissions transparency** due to lack of granular, verified and **consistent data** across their logistics operations
- As emissions disclosure ecosystems grow, it is increasingly important for logistics stakeholders to collaborate and exchange to foster emissions reporting methodological alignment across logistics industry



For what purposes are carbon emissions reported?

- To provide transparency on emissions data and carbon intensity in supply chain, thus allow customers to identify patterns and emissions hotspots, and enable them to evaluate their environmental performance
- To form basis of organizational & ESG reporting as well as business decisionmaking
- To strengthen the company's ESG offering

Source: DPDHL, Smart Freight Centre

GHG emissions calculation and reporting frameworks used at DPDHL Group

DPDHL uses these emission standards & frameworks:



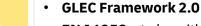
- · ISO 14064-1
- Greenhouse Gas Protocol Standards incl.:
 - · GHG-P Corporate Standard
 - GHG-P Scope 2 Guidance
 - GHG-P Value Chain (Scope 3) Standard
 - · GHG-P Product Life Cycle Standard
- EU-ETS (for aviation activities)

1.Basic foundation

缰

2.Transport

-specific standards



- EN 16258 to be withdrawn after publication of the ISO 14083
- **ISO 14083** published since March 2023

DPDHL endorsed carbon reporting metrics:



Metrics required by ISO 14083

- Absolute CO₂e emissions
- Emissions intensity:
 - Of transport
 - Of facilities
- Input data types





Optional metrics

- Geographical, business unit and product splits
- Other metrics and local pollutants (depending on data availability)



INTRODUCTION TO THE DHL GOGREEN DASHBOARD



DHL GoGreen Dashboard

What is DPDHL's DHL GoGreen Dashboard tool about?



Key Capabilities:

- Automated and interactive carbon reports for customers in dashboard view
- One-stop and efficient consolidation of all DPDHL divisions' carbon reports¹⁾
- Compliant to <u>ISO 14083</u> and <u>GLEC framework</u>



Key Features:

- Multiple views & charts to display key carbon emissions metrics
- Customizable dashboard/report via filters and slicers
- Monthly automated update of report²⁾
- Ability to export and download the report in multiple formats and data tables



¹⁾ Not including LLP business; 2) Latest data are refreshed in the tool with a predicted time lag of 2 months for Post & Parcel Germany and 1 month for all remaining DPDHL business units



Which carbon emission KPIs are reported?

<i>(</i> 74	Reporting KPIs	P&P	EXP	DSC	DGF	FRT	eCS
1	1 Absolute Emissions						
	 CO₂e and energy use (WtW and TtW) 	Yes	Yes	Yes	Yes	Yes	Yes, only CO ₂ e
	Shipment QuantityShipment Weight	Quantity only	Yes	n/a	Yes	Yes	Yes
2	2 Emission Intensity						
	- Facility	n/a	n/a	Yes	n/a	n/a	n/a
	- Transport	Yes, per item	Yes, per tonne-km	Not yet available	Yes, per tonne-km	Yes, per tonne-km	Yes, per item
	- Sea transport	n/a	n/a	n/a	Yes	n/a	n/a
3	Emissions by origin & destination country	Yes	Yes	Only origin country	Yes	Yes	Only origin country
4	Two-dimensional Analysis	Yes	Yes	Yes, but no destination country	Yes	Yes	Yes, but no destination country
5	Top Lane Emission & Emission Intensity	Yes	Yes	Yes, but no destination country	Yes	Yes	Yes, but no destination country
6	Input data types	Yes	Yes	Yes	Yes	Yes	Yes

HOW TO NAVIGATE & READ THE DHL GOGREEN DASHBOARD?



- Monthly, quarterly or annual view available
- Available filters: DPDHL BU, customer division, main haul transport mode, DPDHL product, origin/destination region, origin/destination country, reporting period

What can you find in the tool?

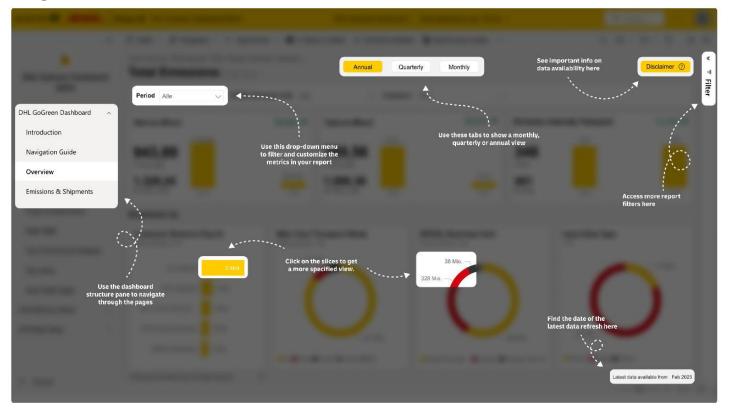
Deep-dives to follow

Dashboard report page	Content Seep-dives to follow
1 Introduction	Short introduction to the report dashboard that consists of a table of report content, important information and links to additional resources and support
2 Navigation guide	Key instructions and tips on how to navigate and use the dashboard
3 Overview	• Summary of key total WtW and TtW CO2e emission figures to date and their development over time (annually / quarterly / monthly) with detailed breakdown by customer division, DPDHL BU, transport mode and input data types
4 Emissions & Shipments	 Visualization of absolute emissions (WtW and TtW CO2e and energy use), shipment quantities & weights as well as emissions intensity by customer division, DPDHL BU, transport mode and DPDHL product. Historic development view is also available
5 Data Table	Comprehensive data table containing absolute WtW and TtW CO2e emissions and emissions intensity figures of your company by year, month, DPDHL BU, main haul transport mode, origin & destination country
6 Origin & Destination	 Visualization of absolute emissions (WtW and TtW CO₂e and energy use) by origin or destination country on the world map Depiction of shipment quantity and shipment weight distributed globally by origin/destination country on a world map
7 Two-Dimensional Analysis	Absolute emissions (WtW and TtW CO2e and energy use), shipment quantities & weights visualized on an interactive chart with self-modifiable data parameters (e.g. customer division, DPDHL BU, origin/destination country, transport mode, time, DPDHL product)
8 Top Lanes	 Display of absolute emissions and shipments data of top 10 lanes and development over time Display of emissions intensity of top 10 lanes and development over time Visualization of absolute emissions (WtW and TtW CO₂e and energy use), shipment quantities & shipment weights against two modifiable parameters (e.g. customer division, DPDHL BU, origin/destination country, transport mode, time, DPDHL product, lane)
9 Input Data Types	• Illustration of percentage breakdown of different input data types used in the emissions calculation (primary vs. model vs. default data) - See the deep-dive and the glossary page for the term definition and explanation
10 Glossary	Table of definitions of all key terminologies used in the report dashboard

- WtW (i.e. Well-to-Wheel)
- **TtW** (i.e. Tank-to-Wheel)
- **BU** business unit

- **Well-to-Whee**l emissions consist of both direct and indirect emissions generated during the fuel life cycle (i.e. from energy extraction, processing, storage, and delivery phases to actual fuel use)
- Tank-to-Wheel emissions are the direct emissions originating from the fuel use (e.g. 0 kg for electricity)

2 Navigation guide



Page "Overview"

Purpose:

This page is intended to display the key total emission figures on the organizational level for your company (for the current and past period). It also shows the breakdown by your company division, DPDHL business unit, transport mode and input data type.

What carbon reporting KPIs can be shown?

- Total WtW and TtW CO2e emissions to date (year to date, quarter to date, month to date), in kg CO2e
- · Total emissions intensity of transport to date (year to date, quarter to date, month to date), in g/tonne-km or g/piece

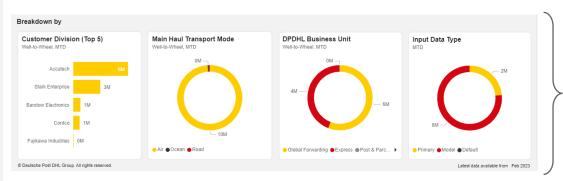
What breakdown can you see?

You will be able to see the shown key summary figures broken down by:

- Customer division (i.e. your company's division)
- **DPDHI Business Unit**
- Main haul transportation mode
- Input data types (see page 18 for detailed explanation)

Choose the relevant slicer to view data in annual / quarterly / monthly breakdown Stark Industries Annual





figures above broken

Total

Total

emission

figures

down by...

Page "Emissions & Shipments"

Purpose:

This page provides deep-dive into various KPIs of absolute emissions, emission intensity and shipment info

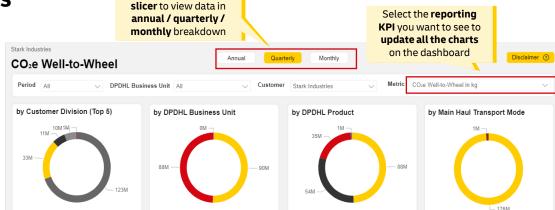
What carbon reporting KPIs can be shown?

- CO₂e WtW and TtW, in kg
- Energy use WtW and TtW, in MJ
- Shipment quantity & weight, in kg
- Emission intensity transport, in g/tonne-km or g/piece
- · Emission intensity facility, in kg/tonne
- Emission intensity of sea transport, in g/TEU-km

What breakdown can you see?

You will be able to see the reported data broken down by:

- Customer division (i.e. your company's division)
- DPDHL Business Unit
- DPDHL product (e.g., Time Definite International)
- Main haul transportation mode
- Time (monthly, quarterly, yearly)



Choose the relevant

Data development over time (month/quarter/year) (depending on the applied slicer or filter)



¹⁾ Data availabilities vary across BUs

Page "Origin & Destination"

Purpose:

This page visualizes the amount of absolute carbon emissions in $\rm CO_2e$ and energy use (WtW and TtW) produced via DHL - based on the shipment's origin and destination country

What carbon reporting KPIs can be shown?

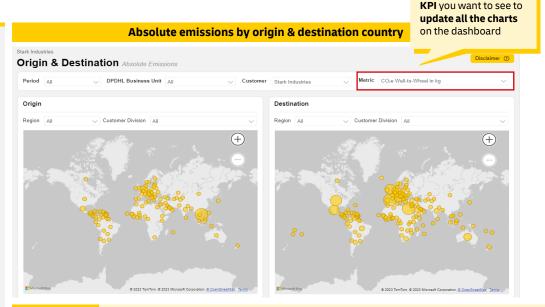
- CO₂e WtW, in kg
- CO₂e TtW, in kg
- Energy use WtW, in MJ
- · Energy use TtW, in MJ
- Shipment quantity
- Shipment weight, in kg

What drilldown can you see?

You will be able to further drill down into the data with the filters on the page:

- Period
- DPDHL Business Unit
- Customer division
- Region

To further narrow down the scope of the dataset, use additional filters in the filter pane





If you click on an origin country's bubble, the other chart will automatically update to display only the corresponding destination countries, where the shipment ended up from this specific origin country during the chosen reporting period, and vice versa

Select the reporting

4 Page "Data Table"

Purpose:

This page provides absolute emissions and emissions intensity data in a tabular format that is customizable via filters and easily exportable for own analysis

What carbon reporting KPIs are shown?

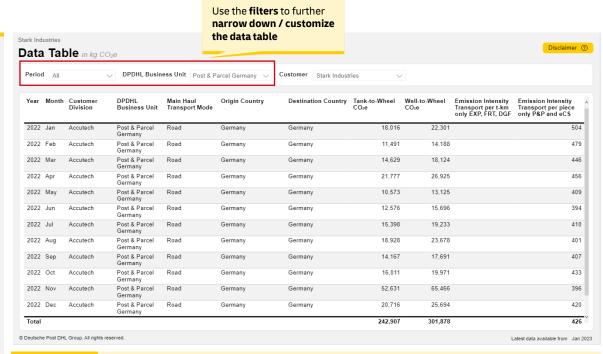
- CO₂e WtW, in kg
- CO₂e TtW, in kg
- Emission intensity transport, in g/tonne-km or g/piece

What drilldown can you see?

You will be able to further drill down into the data with the filters on the page:

- Period
- DPDHL Business Unit

To further narrow down the scope of the dataset, use additional filters in the filter pane





Access **additional filters** in the **filter pane** to the right of the dashboard window to further narrow down the scope of the dataset

Page "Two-Dimensional Analysis"

Purpose:

This page allows you to visualize the amount of carbon emissions your company has generated through DPDHL, broken down by the two dimensions of your choice

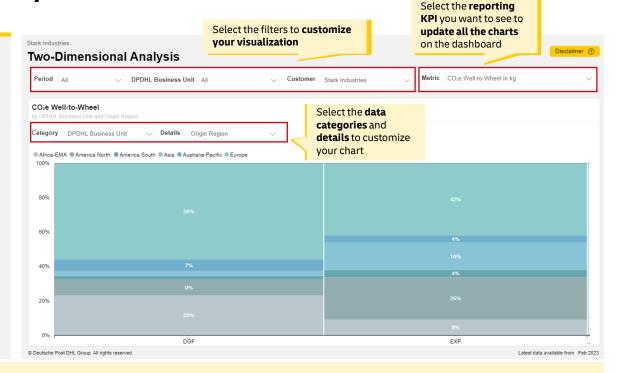
What carbon reporting KPIs can be shown?

- CO₂e WtW and TtW, in kg
- · Energy use WtW and TtW, in MJ
- · Shipment quantity & weight, in kg
- · Emission intensity facility, in kg/tonne
- Emission intensity transport, in g/tonne-km or g/piece
- Emission intensity of sea transport, in g/TEU-km

How can you derive the desired data breakdown?

Customize the chart by selecting the main data category from the "Category" dropdown and data details from the "Details" dropdown:

- DPDHL Business Unit
- Customer division
- Origin /destination region
- Main haul transport mode
- Quarter of year or Month of year
- DPDHL product





Choose from the 'Categories' dropdown to achieve the high-level split of the data you want to have, and use 'Details' dropdown to see further data breakdown within each category

Not available for DSC

Page "Top Lanes"

Purpose:

This page shows carbon emissions data (absolute emissions, energy use and emissions intensity) that your company has generated with DPDHL, split by the top 10 lanes

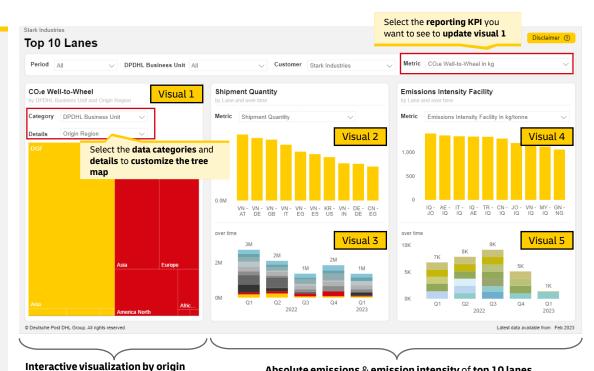
What carbon reporting KPIs can be shown?

- 1. Absolute emissions (visual 1, 2 & 3)
- CO₂e WtW and TtW, in kg
- Energy use WtW and TtW, in MJ
- Shipment quantity
- Shipment weight, in kg
- 2. Emissions intensity (visual 1, 4 & 5)
- Of transport, in g/tonne-km or g/piece
- Of facilities, in kg/tonne
- Of sea transport, in q/TEU-km

What breakdown can you see?

You will be able to see the reported data broken down by:

- Visual 1: by origin country, or destination country, or lanes
- Visual 2-5: by top 10 lanes



/ destination / lanes

Absolute emissions & emission intensity of top 10 lanes

Page "Input data types"

Purpose:

This page shows the percentage of the absolute carbon emissions that were calculated with each input data type

What reporting KPIs are shown?

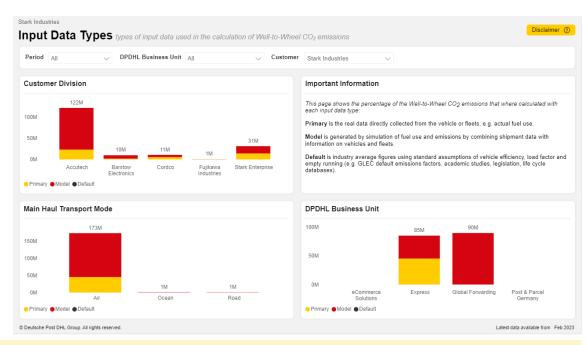
 CO₂e WtW emissions percentage split based on the 3 types of input data (primary / model / default) used in the calculation

Note: primary data are real data collected from vehicles / fleets, thus are a more reliable data source for emissions calculation compared to model or default data

What breakdown can you see?

You will be able to see the reported data broken down by:

- · Customer division
- Main haul transport mode
- DPDHL Business Unit





- Primary data are the real data directly collected from the vehicle or fleets, e.g., actual fuel use
- · Model data are generated by simulation of fuel use and emissions by combining shipment data with information on vehicles and fleets
- **Default data** are industry average figures using standard assumptions of vehicle efficiency, load factor and empty running (e.g., GLEC default emissions factors, academic studies, legislation, life cycle databases)

TOOL FEATURES & STEP-BY-STEP INSTRUCTIONS

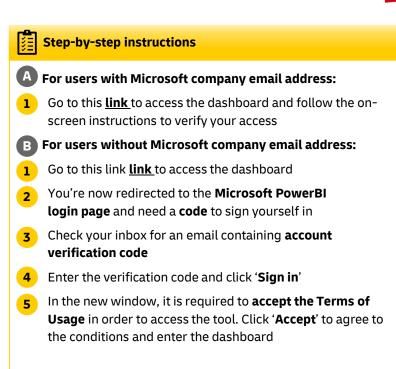


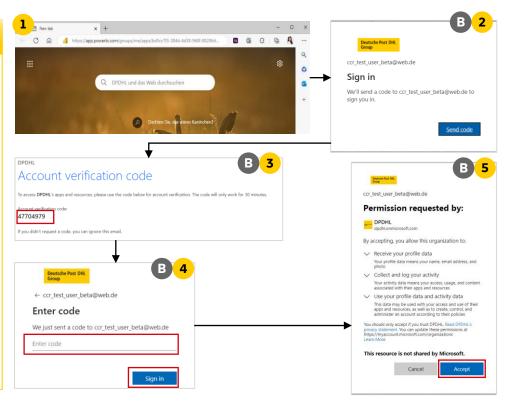
Overview of tool functionalities

@	Purpose	★ ★ Feature	Description	
Š	Access	Access/Log in	Log into the reporting tool and access the dashboard	
	Consume & extract data	2 Export a report as PPT	Export individual dashboard page as a live PPT slide or entire report as a PPT deck	
		3 Export a report as PDF	Publish the entire report to PDF format	
		4 Export data as Excel	Export data of a specific visual in Excel format	
		5 View visual data as a table	Display data of a specific visual in a tabular form	
		6 Filter data	Filter the data by one of the given parameters (e.g. reporting period, mode of transport, origin/destination country) and slice the data in annual / quarterly / monthly period	
		7 Sort data	Change how a visual looks by sorting names or values in alphabetical or ascending/descending order	
<u></u> \$~~	View/display dashboard & visuals	8 Spotlight & focus mode	Highlight a specific visual on the dashboard by expanding it to full screen or fading out all other visuals	
		9 Dashboard view	Choose to display the dashboard page at the size and width you choose (actual size, full screen, fit to page, fit to width); Adjust the zoom scale of the page	
	Collaborate in the tool	10 Subscribe to the report	Receive email notifications with a snapshot and link to the dashboard/report on a pre-set schedule	
		11 Bookmark a report	Capture the state of the dashboard which includes the applied settings like filters, slicers, visuals	
	Share	12 Print	Print a dashboard page or a specific visual	
••	Jilait	13 Generate QR code for report	Create a QR code for the report for sharing	

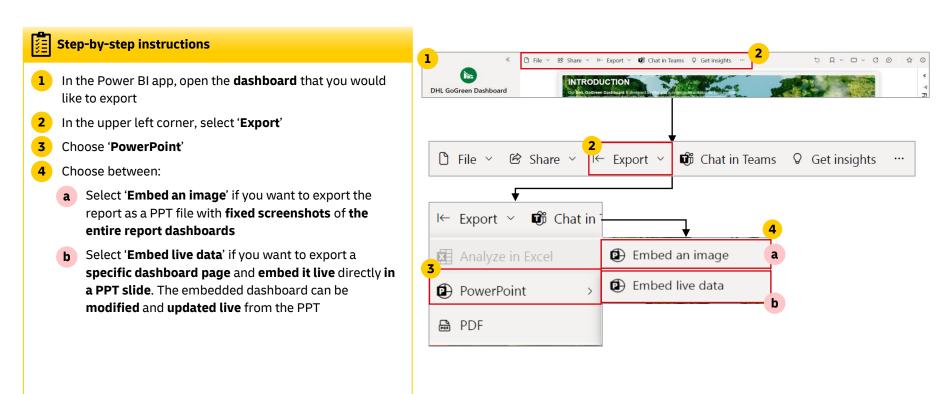
1 Log in to the tool (for the 1st time)



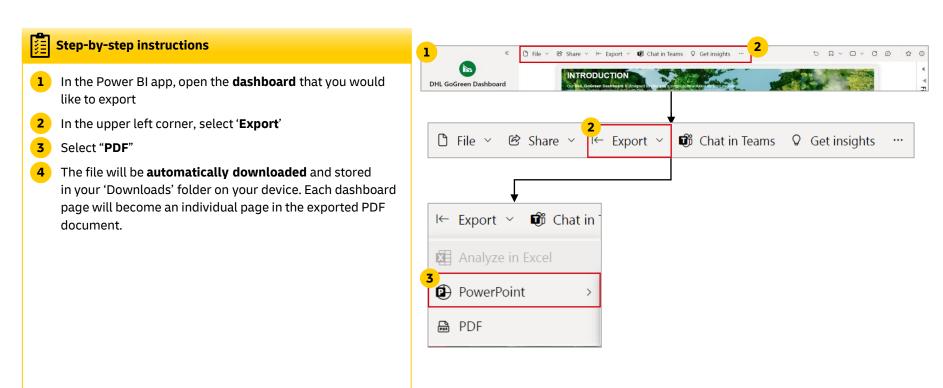




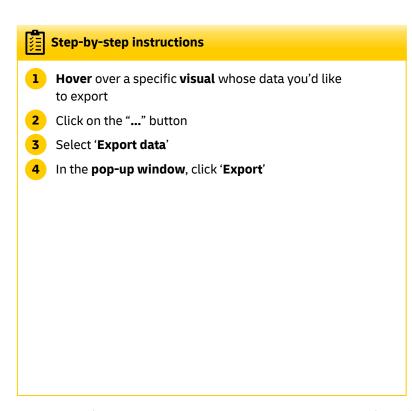
Export the report as PowerPoint

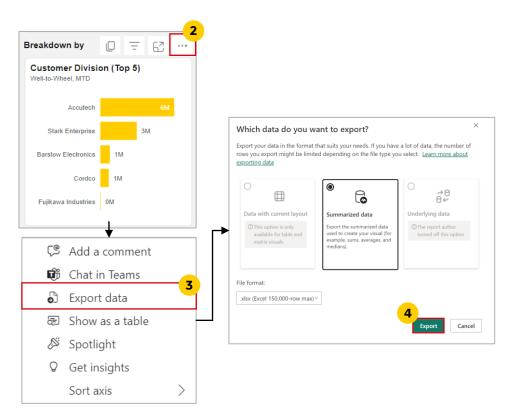


Export the report as PDF

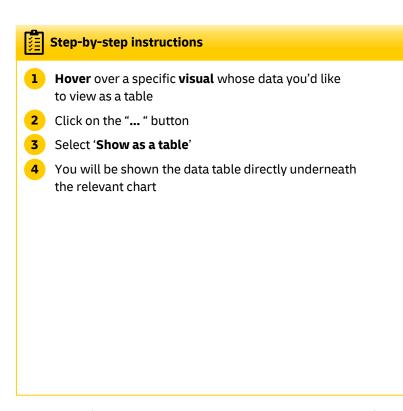


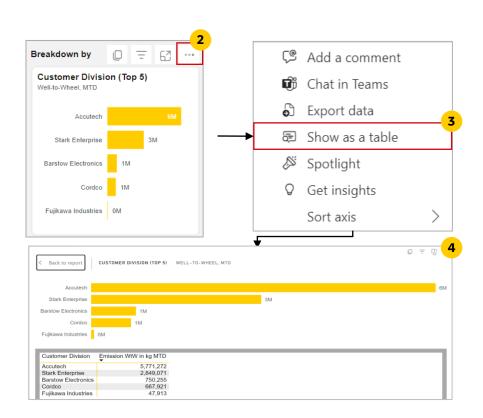
Export chart data as Excel



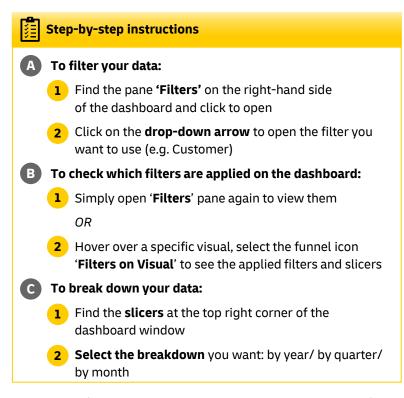


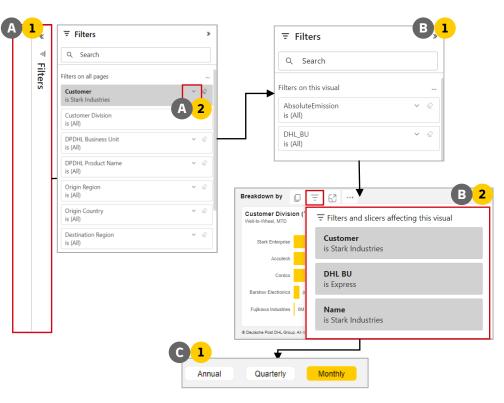
View chart data as a table



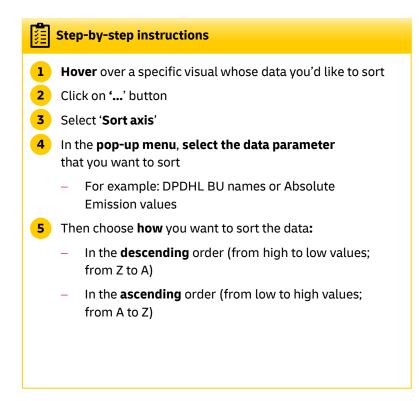


Filter and break down the data





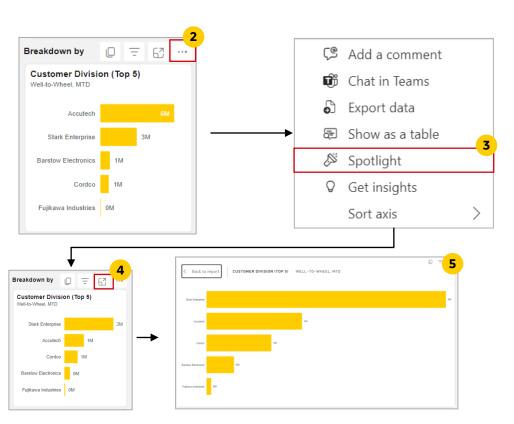
Sort data



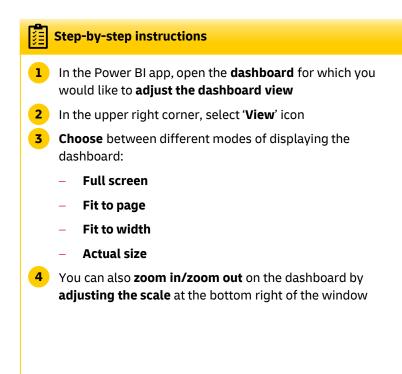


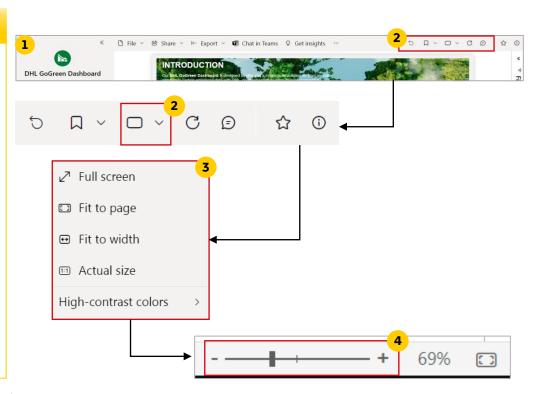
8 **Visual display:** Spotlight/Focus mode



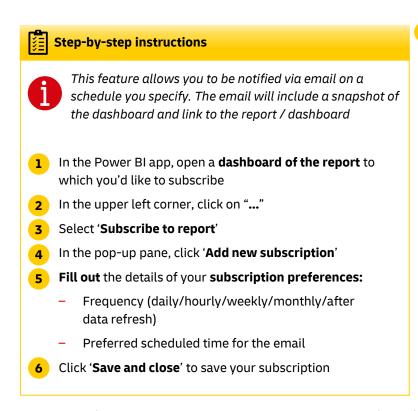


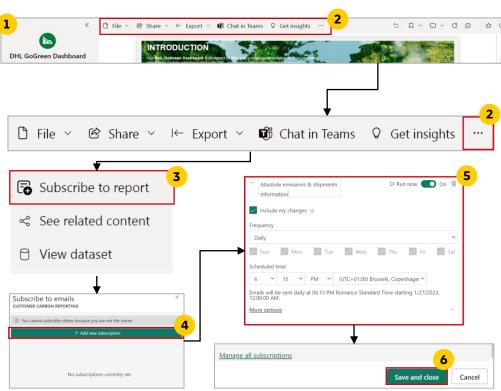
Dashboard view



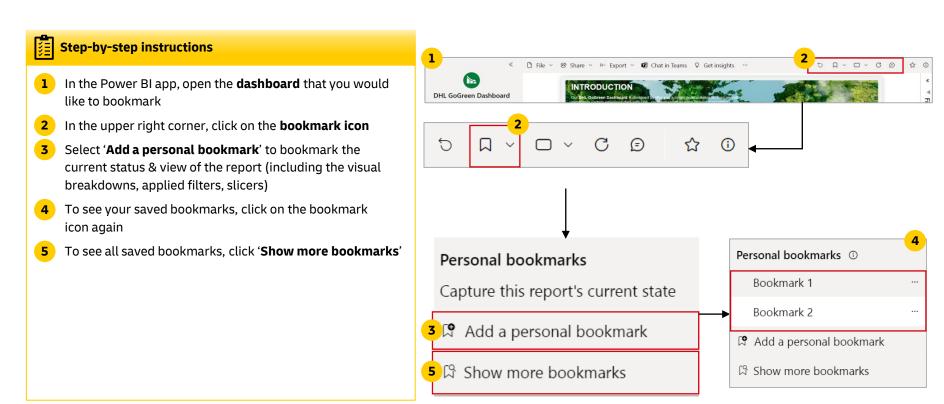


Subscribe to the report

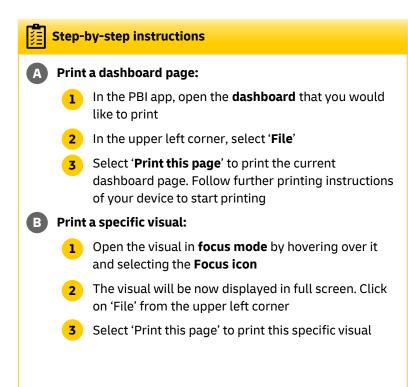


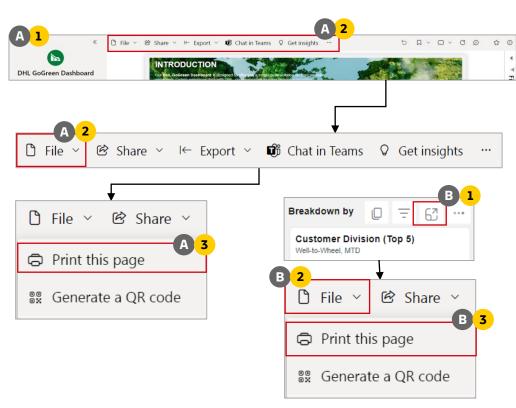


11 Bookmark the report

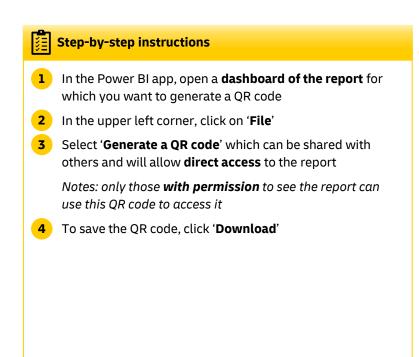


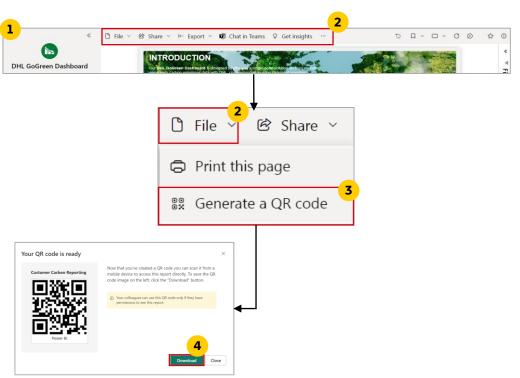
12 Print a dashboard page or a visual





Generate a QR code for report

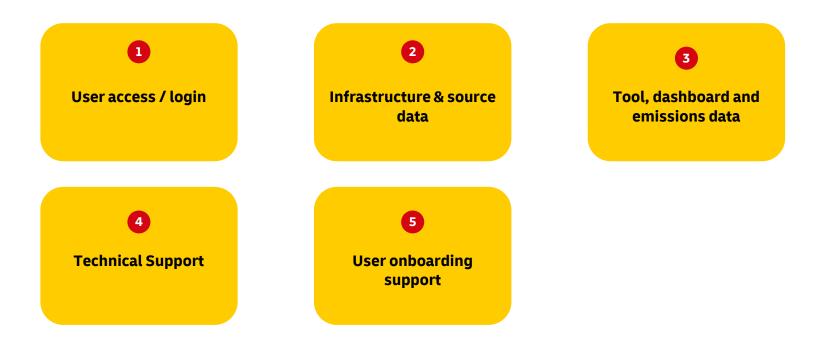




FAQS



FAQ is broken down into 5 sections



User access & login (1/2)

- I can't log into the tool. How can I request access / restore existing access?
 - Depending on the type of user you are, there could be different reasons as to why you cannot log into the tool. See the table below for reference:

User type Possible reasons for access failure		What you can do to gain / restore access		
I have used the tool already	There have probably been some technical errors	Contact our technical support team for help via <u>gogreen@dhl.com</u>		
I previously had access to the tool, but have not used the tool for a longer time	You have probably been inactive for a period of 6 months or longer			
I am a previous user of the CSI Reporting Dashboard	Your account probably has not been activated	Check your inbox for an e-mail and acknowledge the terms of service. If yo do not find any e-mails, please contact our technical support team via gogreen@dhl.com		
I am a CSI Customer and I am interested in accessing the tool	Your account probably has not been set up in the system	Speak to your customer manager / account manager who can submit the access request for you internally		
I am not a CSI Customer, but I am interested in accessing the tool	There is currently no data available for non-CSI customers	Unfortunately, in this first release, data is only available for CSI customers. Please speak to your customer manager / account manager to request ${\sf BU^{1)}}{\sf -}$ specific carbon reports from the respective ${\sf BU^{1)}}$ or to be informed when your data becomes available		

¹⁾ BU refers to a DHL business unit (i.e. DHL Express, DHL Supply Chain, DHL Freight, DHL Global Forwarding, DHL eCommerce, Post & Parcel) DPDHL Group | External User Guide to DHL GoGreen Dashboard Tool | Bonn | May 2023

User access & login (2/2)

- I am interested in the tool. How do I request for access to the tool?
 - Please contact your CSI customer manager / account manager for assistance.
- How/where can I access the tool?
 - · You can access the tool via this link.

Infrastructure & source data (1/2)

Frequently asked questions

· Where does the dashboard get carbon data from?

• The dashboard is built on the aggregated and standardized data extracted from each BU's¹⁾ own carbon reporting system, which contains BU¹⁾ -specific reporting data of customer business. These data are either collected from actual vehicle usage (e.g. fuel use) or, in case of data unavailability, calculated based on data modelling or benchmarking against industry averages. Data include facility handling and all transportation modes as described in the ISO 14083. More information on data sources and data quality can be found in the Technical Documentation (will be available soon).

· What data is included in the report?

• In line with the ISO 14083 standard, our reporting includes energy and fuel related emissions from the operation of hubs and vehicles across all modes of transportation for own and subcontracted transports as well as the upstream emissions generated during the energy provision processes.

Why is some business unit data incomplete/unavailable?

• Each DPDHL BU¹⁾ is a distinct operating entity with their own business model and logistics processes. This leads to inevitable differences in the individual reporting solutions or capabilities. Different business models also imply that certain KPIs can be inapplicable / irrelevant to some BUs. For example, DHL Express will not have the same logistics process in place as DGF, and therefore will not have carbon emissions data for sea transport, which are currently only available for DGF.

¹⁾ BU refers to a DHL business unit (i.e. DHL Express, DHL Supply Chain, DHL Freight, DHL Global Forwarding, DHL eCommerce, Post & Parcel) and does not include LLP business carbon reports for the time being

Infrastructure & source data (2/2)

Frequently asked questions

• Is it possible to get the shipment level data?

• The dashboard currently only provides aggregated emission data, in compliance with ISO 14083 standard. It does not provide emissions data on shipment level. In case of further inquiries regarding shipment-level report, please discuss with your customer manager / account manager.

· When is the report updated?

Reporting data is updated on a monthly basis, but the update time varies among the DPDHL business units. For Express, Supply Chain,
Global Forwarding, Freight and eCommerce Solutions data is updated at the end of the following month, e.g. March data would be
available in early May. For Post & Parcel Germany data is updated 2 months after reporting month, e.g. March data would be available in
early June.

Why may there be a time lag in data update?

• DPDHL business units collect, process and prepare the emissions data in different systems and at different timing intervals. Therefore, the data update depends on the availability and readiness of the data from DPDHL business units.

Is the report verified / audited?

• Once a year, the report data is exported and sent to the SGS for the annual audit. The audited data will be available for customers as a full-year static report (without monthly data refresh). At the same time, customers will still have the option to access the same data in a dynamic version of the dashboard with monthly refreshes

Tool and dashboard

- · Can I customize the exported data table?
 - It is not possible to customize the export data table because the underlying data is pre-mapped, consolidated and linked in the backend.
- · Can I modify the underlying data?
 - It is not possible to edit the underlying data as a viewer. The underlying data is mapped, consolidated and linked in the backend as a result of cross-BU¹⁾ alignment.
- Can I change the type of chart visualization (e.g. from a pie chart to a bar chart)?
 - It is not possible to modify the visuals as a viewer of the report, but we are open to feedback. If you have any feedbacks, please contact us at gogreen@dhl.com.
- How do I see visualization for a subset of main data across all the visuals?
 - Please refer to page 11 from the User Guide for this and more tips on how to use and navigate the dashboard.
- I see an error in the reported/visualized data, to whom should I report it?
 - If the visuals are not loading / displaying data when they are supposed to, please report it to gogreen@dhl.com for help.

Technical support

- I have technical issues with the DHL GoGreen Dashboard, where can I get the technical support?
 - For technical questions, please reach out to gogreen@dhl.com.
- I have questions but cannot find the answer in the existing supporting materials, who should I contact?
 - For any other questions, please reach out to gogreen@dhl.com.

User onboarding support

- Where can I find the supporting/onboarding materials?
 - You can find all relevant reference materials, such as user guide, how-to videos, FAQ or technical documentation materials on our landing page: https://www.dhl.com/global-en/campaign/gogreen-dashboard.html.
- Am I allowed to share the supporting reference materials with other people?
 - · All materials shared on our website may be freely shared with others within your company.