# **Updated Environmental Statement** 2023 Issue

Reporting year 2022

## **Lufthansa Airlines**

 Lufthansa Airlines Frankfurt am Main Lufthansa Airlines Munich Lufthansa CityLine



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• Adjustments to the content of the extended environmental statement for Lufthansa Airlines Frankfurt are marked accordingly

## **Our Progress**



# Foreword

## Dear readers,

• With the overall EMAS validation of Lufthansa Airlines and Lufthansa CityLine we have reached another milestone in the sustainable orientation of our company. After Lufthansa CityLine as a pioneer has been validated annually since 2000 and the Lufthansa Airlines location Munich has joined in 2018, we have now been able to validate the Lufthansa Airlines location Frankfurt as a further building block.

This consistent approach highlights our unchanged goal: To make aviation more sustainable and to advocate for effective climate protection in all operational processes.

We are convinced that this focus is crucial to becoming more crisis-resistent and seizing new opportunities. Our environmental management system is proving to be a valuable compass and at the same time a driver of innovation. Based on Lufthansa CityLine's 20 years of experience, we have created the necessary organisational conditions for more climate and resource protection in our operational processes and leveraged synergies between our companies.

In accordance with Lufthansa Airlines' new strategic orientation "we take off to take care," we are strengthening the central area of sustainability. By assigning it directly to the Executive Board, we emphasise its importance and create a powerful cross-company team with responsibilities in the various action fields of sustainability.

In comparison to the environmental statement of May 2023, this is the first time in which Lufthansa Airlines Frankfurt is included. So the environmental statement consists of the activities and progress of Lufthansa CityLine as well as Lufthansa Airlines' locations in Munich and Frankfurt. The review period corresponds to the reporting year 2022.

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Once again, we sincerely thank all employees who have shown remarkable commitment to environmental and climate protection in these challenging times. In particular to those who have actively contributed to the introduction of the environmental management system at the Frankfurt hub.



**Jens Ritter** Chief Executive Officer Lufthansa Airlines

**Dominik Moeslein** Head of Business Development & Sustainability Lufthansa Airlines

"Flying connects not only continents but primarily people. It is our key concern not only to reduce distances but also to shrink the climate-damaging effects as well."

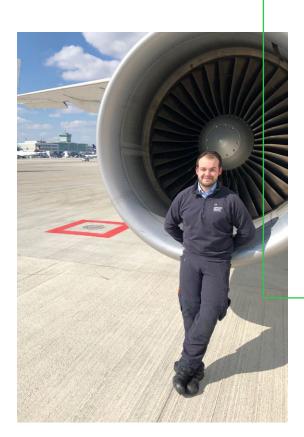
Rosamunde Rubino Key Account Manager, Deutsche Lufthansa AG



Merlin Erdmann Lufthansa CityLine

**Daniel Poth** Aircraft Mechanic, Lufthansa Airlines

"In aircraft maintenance the responsibility towards the environment requires considerate handling of resources and materials that we use every day."



"We should be aware that every flight has an impact on the climate and the environment and we are obliged to do our best to keep this impact as small as possible."

Pascal Karl Aircraft Mechanic, Lufthansa CityLine

"As an employee of an airline I have an interest in and share responsibility to minimise our negative impact on the environment. That is my motivation!"

Personnel Development & Marketing Consultant,





"As an airline, we bear a great responsibility for our natural environment and must actively promote more sustainable and environmental friendly practices."

Natalya Posukhova Passenger Service Professional, Lufthansa Airlines

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# Lufthansa Airlines Munich

Lufthansa Airlines is the largest German airline in the Lufhansa Group. It maintains hubs at the two largest German airports, Frankfurt and Munich, and offers its customers a premium product with global connections.

At the Munich hub, Lufthansa Airlines Munich is responsible for station management and the operational planning and steering of passenger flight operations. Administration and the hub-based crews are part of Lufthansa Airlines Munich as well as the addition of aircraft maintenance following an operational reorganisation. The majority of air traffic at Munich Airport is provided by Lufthansa and its partner airlines.



46 Countries (+10%)

Destinations (+8%)

106,828 Flights (+123 %)



Million Offered Seat Kilometres (+173%)

 $(\checkmark)$ 







#### Fleet Composition:



Airbus A340



Airbus A320



Airbus A350



Airbus A319



14

Airbus A321



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# Lufthansa Airlines Frankfurt

Lufthansa Airlines is the largest German airline in the Lufhansa Group. It maintains hubs at the two largest German airports, Frankfurt and Munich, and offers its customers a premium product with global connections.

The Frankfurt am Main hub is the largest hub of Lufthansa Airlines and the base for flight operations with a direct connection to the Lufthansa Group. In addition to station management as well as operational planning and control of passenger flight operations, the flying as well as administrative staffs and aircraft maintenance are located here. It is the primary base for corporate management and other administrative functions.







#### Fleet Composition:







Boeing B747-8

Boeing B747-4

Airbus A340

 $(\checkmark)$ 

**(A)** 

Countries (+-0%)

9196

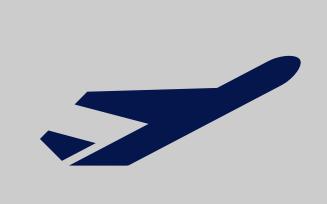
Destinations (-2%)



# 25,939,204 Passengers (+96%)

86,897

Million Offered Seat Kilometres (+44%)



167,532 Flights (+60%)



Airbus A330

44





Airbus A320





Airbus A319







## **Corporate Figures 2022**

# Lufthansa CityLine

As a partner and subsidiary of Lufthansa Airlines, Lufthansa CityLine GmbH specialises in European destinations and provides fast and comfortable passenger connections to and from the hubs of Munich and Frankfurt. Since 2022 Lufthansa CityLine has also been operating cargo aircraft in wetlease for Lufthansa Cargo. As a medium-sized company, Lufthansa CityLine is characterised by lean structures and the integrated organisation of flight operations, maintenance and administration. Since September 2014 these areas are located at the Munich site as the operating base. A further technical station is located at the Frankfurt site.

Million Offered Seat Kilometres (+46%)















#### Fleet Composition:



Bombardier CRJ900

Embraer 190



Airbus A319

Airbus A321F



Employees (+-0%)









# Strategic focus on sustainability CARE.ACT.SHAPE.

After the difficult years of the pandemic, Lufthansa Airlines is looking ahead: In a changing world, it is important to find innovative answers to upcoming challenges, to be better prepared for crises and to actively exploit opportunities. A new strategy program is intended to prepare the ground for this. It sets clear priorities and ambitious, measurable goals until 2025. CARE.ACT.SHAPE. is the title of the program, which also names the three pillars that support it: "CARE" has first priority and stands for the claim to take responsibility – for customers

and employees as well as for the environment and society. The "ACT" pillar includes concrete financial and operational performance targets, such as the continuous improvement of punctuality. Finally, "SHAPE" aims to give shape to the future with concrete projects. In this way, Lufthansa Airlines intends to consistently advance digitalisation and, in a high-performance system, optimise the interaction of flight operations at the hubs.

## **Sustainability** is anchored in the **DNA of Lufthansa Airlines.**

According to the guideline "CARE", sustainable action is to be integrated even more systematically into everyday operations as a core component of the corporate strategy. For this reason, Lufthansa Airlines continuously identifies projects and initiatives that will contribute significantly to a reduction of net CO<sub>2</sub> emissions by 50 percent by 2030 compared to 2019. In the future, the effects on the  $CO_2$ 

balance will be considered from the outset in all management decisions. In addition, numerous other initiatives are in a planning stage that pay attention to the so-called ESG criteria – environment, social and governance. All employees are called upon to actively participate, be it with ideas on sustainability in their own area or by making use of the various information offerings via the internal media.





ESG breakdown to LHA CO<sub>2</sub> and Waste Targets & KPIs Governance Adaption



Green Product Range **Fuel Efficiency Projects** Waste Reduction / Circularity **Environmental Management System** Lufthansa Airlines



B2C Marketing Campaign Training Concepts ESG Website



# **The Lufthansa Group**

The Lufthansa Group is a globally operating air transport company with 319 subsidiaries and associated companies. It claims a leading role in its home market of Europe. The Lufthansa Group is divided into four business segments.

#### **Passenger Airlines**



This business segment includes the airlines Lufthansa Airlines, SWISS, Austrian Airlines and Brussels Airlines as well as Eurowings. Within the multihub-strategy they offer their passengers a wide range of flights via five hubs. Lufthansa Airlines also includes the regional airlines Lufthansa CityLine and Air Dolomiti as well as the holiday carrier Eurowings Discover. Eurowings provides a broad range of point-topoint connections on short-haul European routes. MRO

< Lufthansa Technik

This business segment is operated by Lufthansa Technik AG as the world's leading manufacturerindependent provider of maintenance, repair and overhaul services (MRO) for civil, commercially operated aircraft. It serves more than 800 customers worldwide, including airlines, aircraft manufacturers and leasing companies, VIP jet operators and governments.

# At a glance

Head quarters

Cologne

Hubs

Frankfurt am Main, Munich, Zurich, Vienna and Brussels

(bn. Euro)



Note: All figures refer to the year 2022, or the reference date 31.12.2022.

# 109,509 Employees





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#### Logistics

< Lufthansa Cargo

In addition to Lufthansa Cargo AG, this business segment includes the Jettainer Group, which specialises in the management of airfreight containers, the subsidiary time:matters, which specialises in particularly urgent consignments, Heyworld, specialised in the e-commerce industry, and the shareholding in the cargo airline AeroLogic.

#### Catering

#### The LSG Group stands for this business segment. It offers a holistic range of products, concepts and services around in-flight service as well as for other sectors such as retail or food manufacturers. LSG Sky Chefs is a global food specialist for airlines, the home delivery market and retail.

**LSG**group

#### Group-wide reporting

- Q The Lufthansa Group publishes facts and figures on sustainability annually in the non-financial statement, which is an integral part of the Annual Report.
- The sustainability factsheet and other Ô sustainability-related reports – including the progress report on the UN Global Compact, the report on the Task Force on Climaterelated Financial Disclosures and the CDP Report - are compiled on our website.

710 Aircraft Group Fleet



101.77

Million Passengers



# **CO<sub>2</sub> Reduction Target Scientifically Confirmed**

Around three percent of global CO<sub>2</sub> emissions are caused by air transport. The air transport industry therefore has a special responsibility. In order to live up to this responsibility, the Lufthansa Group has set itself ambitious CO<sub>2</sub> reduction targets and backed them up with measures.

The Group is committed to reducing specific  $CO_2$ emissions per tonne-kilometre transported (passenger and cargo, RTK) by 30.6 percent compared to 2019 by 2030. This target is to be achieved exclusively by reducing fuel consumption, for example through operational measures and accelerated fleet modernisation, as well as the substitution of fossil fuel with sustainable aviation fuel (SAF).

Lufthansa Group among the first worldwide in validation

This CO<sub>2</sub> reduction target was validated by the Science Based Targets initiative (SBTi) in summer 2022. It thus confirmed that the strategy is in line with scientific criteria for achieving the goals of the Paris climate agreement. The Lufthansa Group was the first airline group in Europe to achieve this validation; worldwide, it is among the first three.

By 2050, the Group aims to achieve a neutral CO<sub>2</sub> balance (net zero target). The Aviation Alliance Fit for 55, an alliance of European airlines and airports in which all airlines of the Lufthansa Group are members, founded in 2022, is also committed to this goal. The Lufthansa Group intends to achieve its self-imposed goal of halving net CO<sub>2</sub> emissions by 2030 compared to 2019. Beyond the CO<sub>2</sub> reduction in accordance with the SBTi targets, this is to be achieved through voluntary compensation and corresponding customer offers for more climate friendly air travel.

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### **LUFTHANSA GROUP**

is a joint initiative of the non-profit organisation CDP (formerly the Carbon Disclosure Project), the United Nations Global Compact, the World Resources Institute (WRI) and the World Wide Fund for Nature (WWF). It defines and promotes best practices of the private sector in setting and implementing science-based climate protection targets and evaluates companies' reduction strategies independently.



-30.6% gCO<sub>2</sub>/RTK until 2030



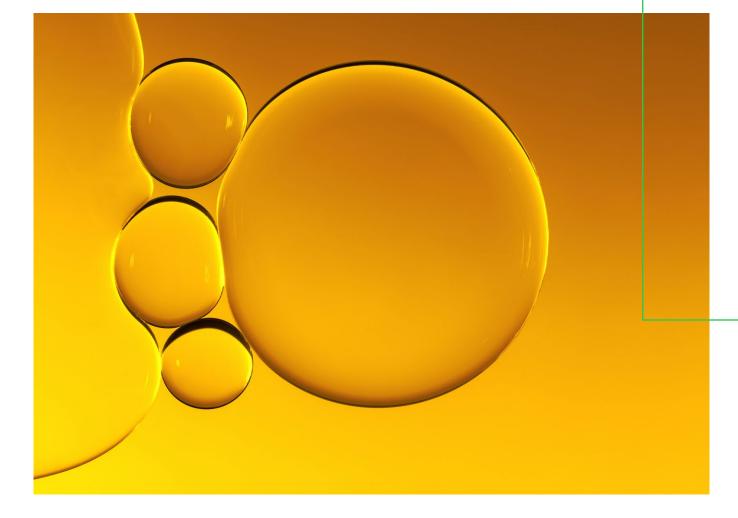
## Excellent Ratings in the Renowned CDP Climate Ranking

In the global CDP Climate Ranking 2022, the Lufthansa Group received a top rating for its CO<sub>2</sub> reduction strategy and its implementation, improving once again compared to the previous year. On a scale from "A" to "D", the company was placed in the highest ranking band with "A-" (previous year "B"). The Lufthansa Group is thus among the five best-rated airlines worldwide. CDP gave the Lufthansa Group top marks in reporting in the following assessment categories: Scope 1 and 2 (direct emissions and indirect emissions from purchased energy), Scope 3 (indirect emissions within the supply chain), corporate governance, risk management processes, targets and initiatives to reduce emissions.

Each year, CDP collects information on  $CO_2$  emissions, sustainability strategies and targets from more than 18,700 companies representing more than half of the global market capitalisation in a standardised process. The data determined also flows into other assessments by leading rating agencies. The Lufthansa Group has participated in the CDP reporting since 2006 and therefore informs relevant stakeholders continuously and transparently about its climate protection strategy and measures for  $CO_2$  reduction.

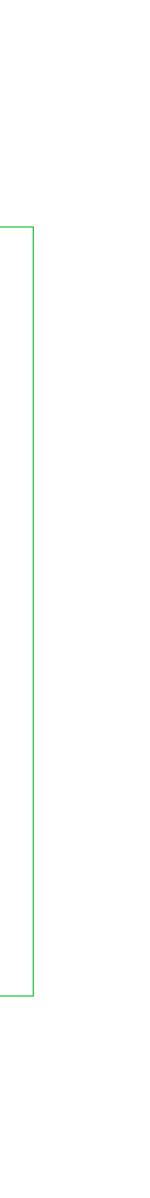
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#### Remuneration of the Executive Board is linked to emission reductions

Emission reduction targets have been part of the long-term variable remuneration for the Executive Board of Deutsche Lufthansa AG since 2011. Since the changeover of the salary system in 2019, the Supervisory Board has regularly defined an environmental target as a focus for the strategic and sustainability goals as part of the multi-year variable remuneration for the Executive Board. In this way, the reduction of specific CO<sub>2</sub> emissions in accordance with the SBTi targets was also defined as a focus within the framework of the multi-year variable remuneration for the financial year 2022.



Stakeholders of the Lufthansa Group



- Customers
- Consumers



- Investors
- Shareholders
- Analysts
- Rating agencies



- Government
- Legislation
- Politics
- Authorities



- NGOs
- Industry associations
- Assocations



- Science
- Research and education

- Employees
- Employee representation

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- Residents
- General public
- Social networks



- Suppliers
- Contracting parties

# Ν

The companies of the Lufthansa Group are intertwined with society in many ways. They are in relationship with internal and external stakeholders and guided by legal and other obligatory political requirements at national and international levels. In addition, external factors – such as the corona pandemic or the Ukraine war – influence the company's activities.

In recognition of these interactions, the continuous exchange with stakeholders makes an important contribution to the further development of the Lufthansa Group's sustainability strategy. It contributes to understanding the expectations and wishes of the various stakeholder groups and to incorporating them into the company's actions. For this purpose, Lufthansa uses various formats that facilitate an open and trusting exchange. Sustainability topics are also addressed in external communication media, such as social media channels.

The last stakeholder survey took place in 2018. Another broadbased survey of the stakeholder groups was postponed due to the pandemic and is now planned for autumn 2023. Based on this, in a materiality analysis the Lufthansa Group determines which topics are considered particularly relevant from the perspective of the company and the stakeholder groups. The findings will be incorporated into the further development of the environmental and sustainability management.

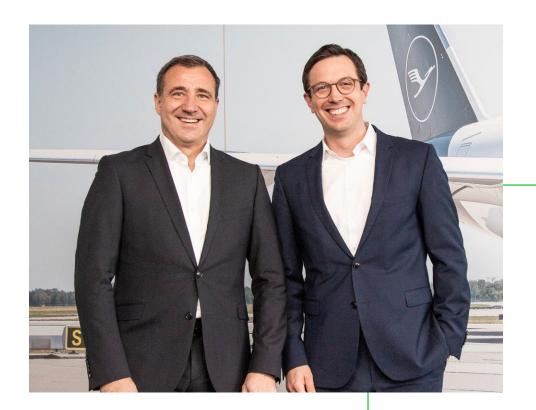






## **The People Behind**

An environmental organisation incorporating both companies serves to coordinate and maintain the integrated environmental management system. It defines responsibilities at the various levels, such as the role of the environmental officer and the management representatives. The employee representatives also participate, and the employees are involved through appropriate communication and dialogue measures.



Wolfgang Diefenbach and Jens Fehlinger Managing Directors Lufthansa CityLine



The company managements monitor the effectiveness of the management system and provide the necessary personnel and financial capacities. Together they appoint the environmental officers.

Employee Representation



In support, a total of about **40 environmental coordinators** are active in the individual departments at Lufthansa Airlines and Lufthansa CityLine. They ensure that the environmental organization is broadly positioned and that functional environmental topics are consistently pursued.



Dominik Moeslein, Isabell Stutzenberger and Maximilian Adam

**Jens Ritter** Chief Executive Officer Lufthansa Airlines

#### Management Representation and Environmental Officers

• The management representative and the joint environmental officers of Lufthansa Airlines and Lufthansa CityLine are responsible for the practical coordination of all environmental activities and the strategic development of corporate environmental protection.

<sup>1</sup> Included in the environmental management system as of 2022

## **Anchored in Top and Base**

Responsibility for environmental protection and sustainability for all companies and operating units of Lufthansa Airlines has been bundled in the department Business Development & Sustainability since 2022. In this department, which is directly assigned to the Executive Board of Lufthansa Airlines, the environmental officers work together with other sustainability officers. In this manner, additional specific responsibilities for sustainable aviation fuels (SAF), waste and communication are to be created in the future.



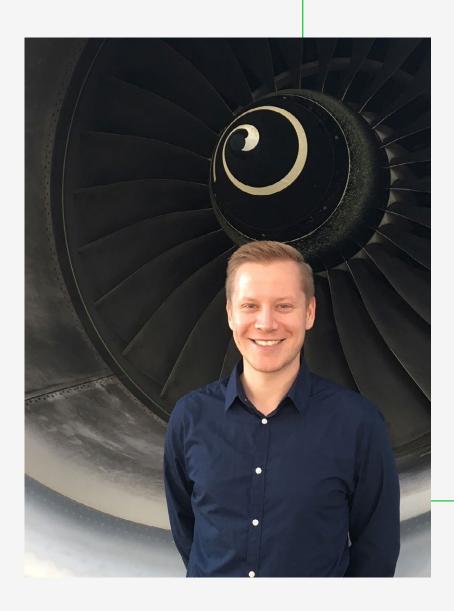
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## **"Environmental protection is close** to our hearts in our private lives. It goes without saying that we are also committed to it at our workplace on board."

Corinna Frank (standing left) and Marc Weber (sitting right) Environmental coordinators of the Lufthansa CityLine Cabin

Pictured here with Lufthansa CityLine's Environmental Working Group Cabin, which flight attendants founded back in 2003. Here they jointly develop ideas for more environmental protection and resource conservation on board.





**"Environmental protection in** aircraft maintenance is not a luxury, but an obligation we have towards our planet and future generations."

#### **Stefan Guigas**

Environmental Coordinator of the Technical Fleet Management of Lufthansa Airlines

Newly appointed Environmental Coordinator of Aircraft Maintenance: Stefan Guigas has officially taken up his position in 2023 and is pleased to have a team of ten colleagues who want to support him professionally in advancing operational environmental protection in the technical hangars.



# Continuous **Improvement Process**



Environmental guidelines and program



Implementation of the **Environmental Management** System



The joint environmental management of Lufthansa Airlines and Lufthansa CityLine has meanwhile entered routine operation. An essential objective of the management system is continuous improvement, which follows the principle Plan-Do-Check-Act. In doing so, we orient ourselves to the essential components of an environmental management system according to EMAS. In our environmental guidelines, we have formulated our common understanding of values within the company and towards our partners and suppliers.

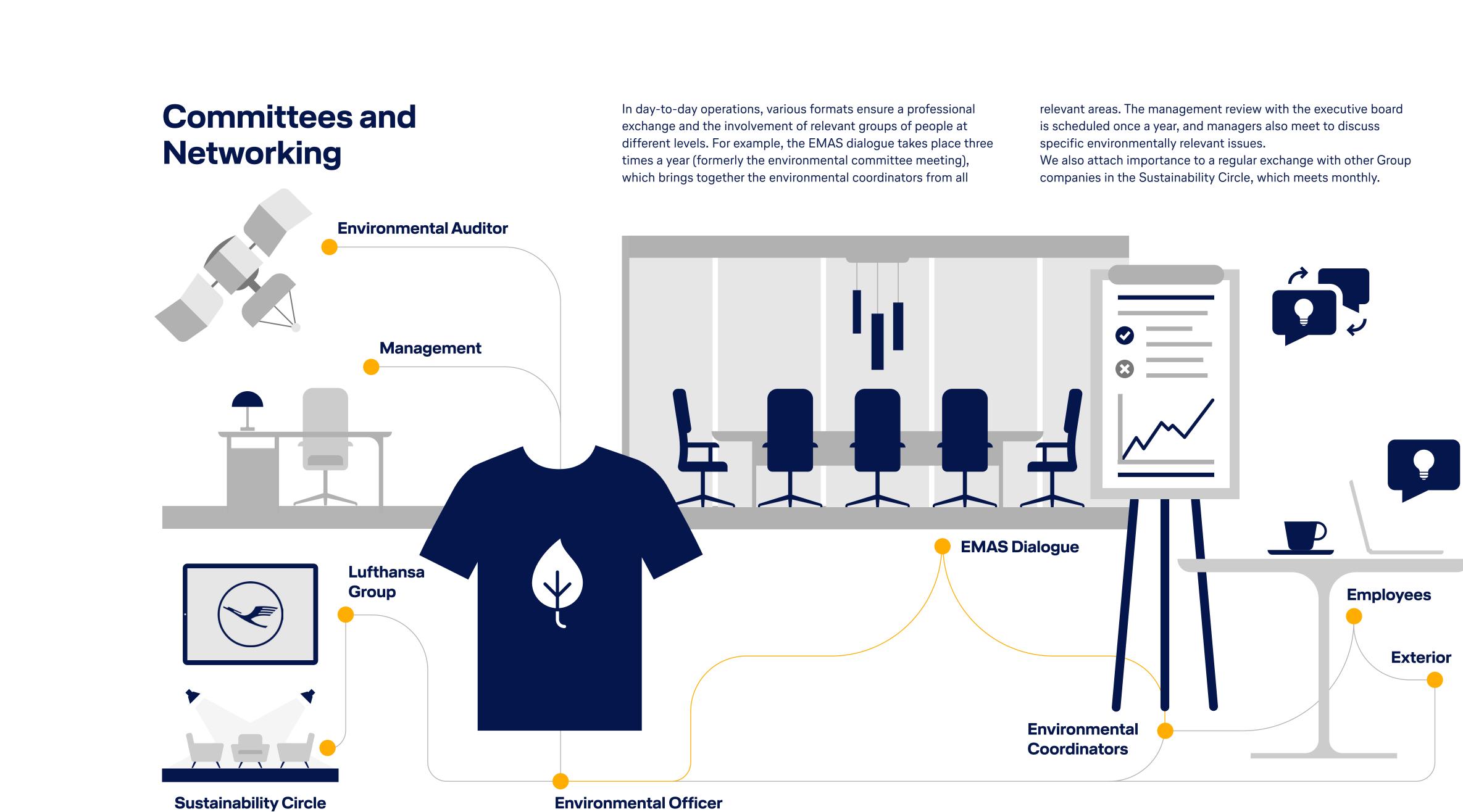
The main environmental impacts of flight operations include climate effects as a result of CO<sub>2</sub> emissions caused by the combustion of paraffin. Arrivals and departures at airports are also associated with noise pollution for local residents. Other environmental impacts are added: resources such as energy and water are consumed both in on-board service and in the supporting activities of flight operations – aircraft maintenance and administration. Waste is also generated on the ground and in the air, which must be reduced and recycled. This results in

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environmentally relevant fields of action that find expression in our environmental program. Internal monitoring audits serve to ensure continuous improvement in every department. We monitor our progress with detailed environmental indicators. With an annual review by an environmental auditor and the publication of the environmental report, we ensure the quality of our work and make our commitment accessible to our stakeholders and the interested public.









# **Our Locations**

The airports Frankfurt am Main and Munich are the operational bases of Lufthansa Airlines and Lufthansa CityLine. On these locations, buildings are rented from the airport companies for administration, aircraft maintenance, lounges, and training.



01 Flight Operations Center (FOC)

The FOC at Munich Airport houses the flight operations and a large part of the administrative units of Lufthansa Airlines and Lufthansa CityLine.

#### Lufthansa Airlines

- 02 Maintenance Hangar 1
- 03 Lounges
- 04 Administration building space in the extension to Terminal 2.

In addition to Lufthansa Technik, the large hangar also includes Lufthansa Airlines' aircraft maintenance.

In Terminal 2 and the satellite of Terminal 2 there are seven lounges for passengers of Lufthansa and its partner airlines.

Lufthansa Airlines Munich is using additional administrative

#### Lufthansa CityLine GmbH

05 Maintenance Hangar 4 Lufthansa CityLine's Munich technical station maintains its own hangar with office space.

#### 06 Training centre

The training building of Lufthansa Aviation Training and Lufthansa CityLine houses aircraft mock-ups as well as training rooms for emergency and service training.

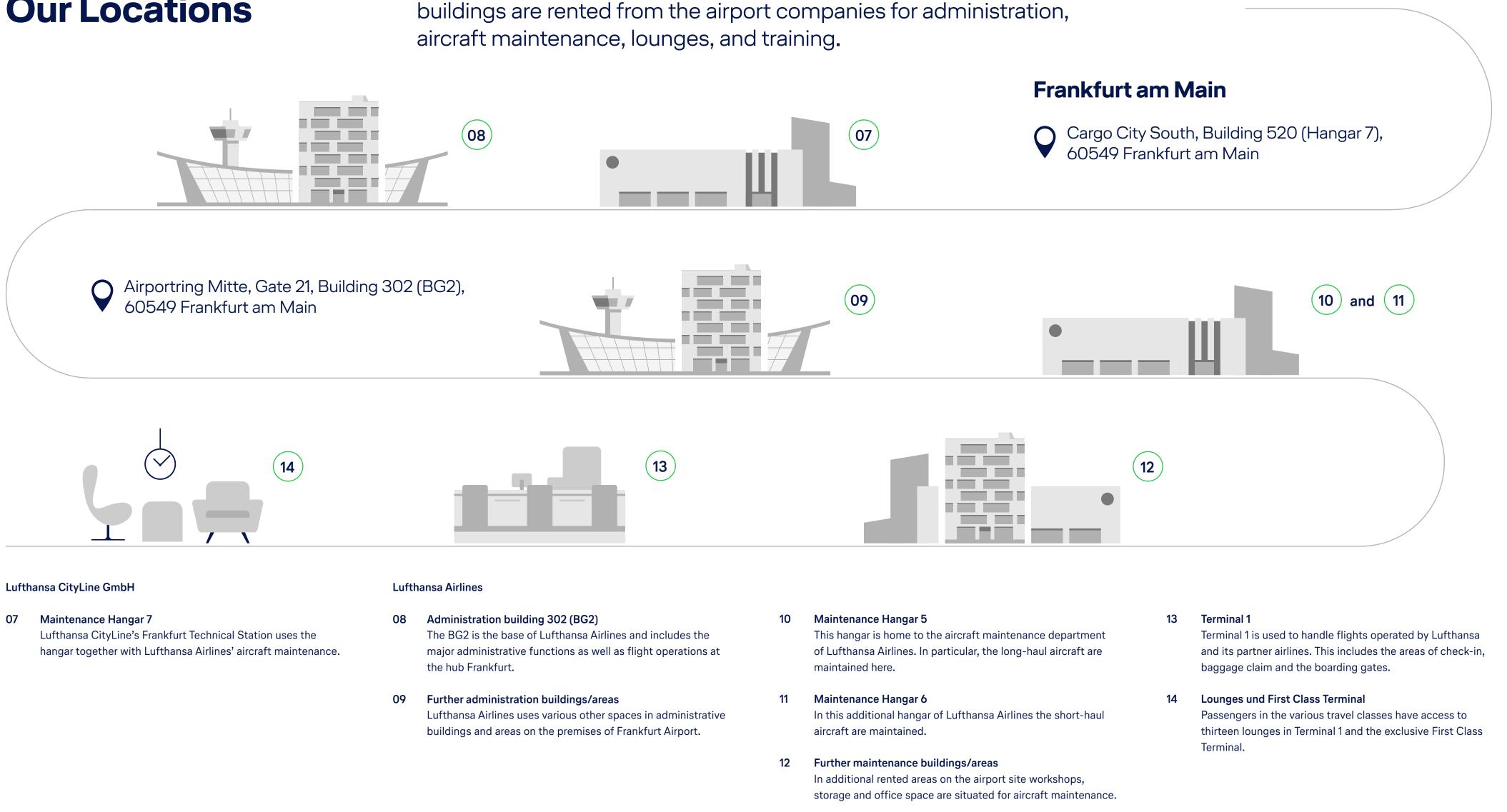
> Frankfurt am Main on the following page

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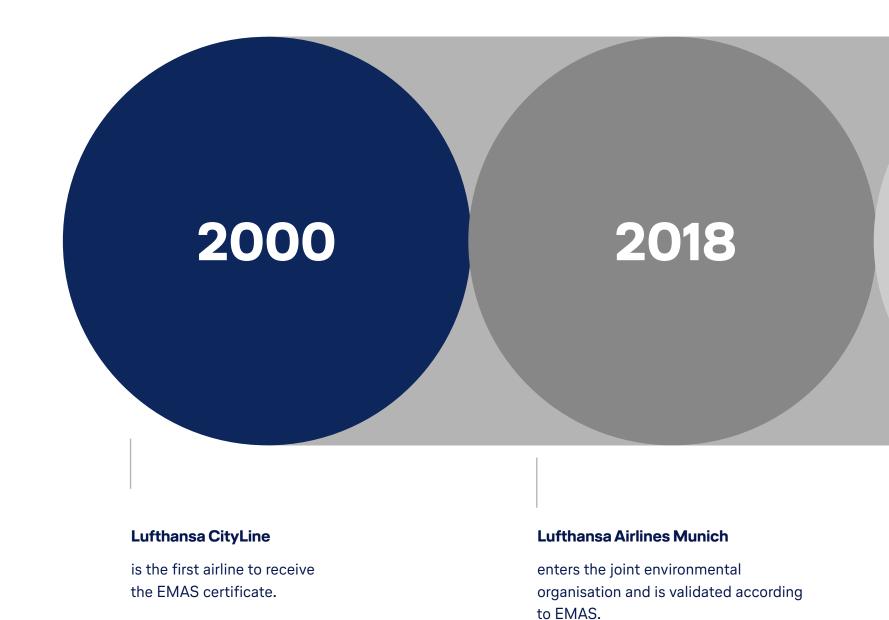
The airports Frankfurt am Main and Munich are the operational bases of Lufthansa Airlines and Lufthansa CityLine. On these locations, buildings are rented from the airport companies for administration,



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# **Our Milestones**



## Maintenance business transferred to Lufthansa Airlines

• Since January 2020, the business areas aircraft maintenance and CAMO (Continuing Airworthiness Management Organization) have been transferred from Lufthansa Technik to Lufthansa Airlines – including tools and service vehicles. This transfer of business ensures close operational coordination and control in Lufthansa Airlines' fleet maintenance during ongoing operations. Maintenance operations will therefore also be part of environmental reporting from the 2022 reporting year and integrated into the environmental management system.

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## • Successfully validated ...

... has been the hub Frankfurt and thereby is part of the environmental statement for the first time.

## 2023

2024

#### **Lufthansa Airlines Frankfurt**

is validated according to EMAS for the first time and integrated into the corporate system.

#### Lufthansa Airlines

are equipping themselves for the future with a cross-company validated environmental management system.



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Together we operate internationally.



We are committed to the highest quality standards.

# **Environmental Policy** Our guidelines

# 

Air transport consumes energy and raw materials and pollutes the environment through emissions and waste. In order to keep the environmental impact of our industry as low as possible, both locally and globally, we have committed ourselves to introducing guidelines for environmental precaution. These are an expression of our responsibility and form the basis of the joint environmental management of Lufthansa Airlines and Lufthansa CityLine.

In April 2023, the CEO of Lufthansa Airlines, Jens Ritter, and the managing directors of Lufthansa CityLine, Jens Fehlinger and Wolfgang Diefenbach, confirmed the guidelines with their signatures. They will be continuously updated according to the development of research and technology as well as the social discussion.

➤ Environmental care is a primary corporate goal. The obligation to protect the environment is an expression of our common corporate responsibility. Environmental care is one of the most important corporate goals. We want to meet the demands of our employees and customers for environmental compatibility, economy, safety, quality, service and comfort in the same way.

- **We are guided by the guiding principle** of sustainable business.
- We want to constantly improve. into account.



We record and evaluate the impact of our actions on the environment.



Our environmental responsibility also applies to our surroundings.



We want to constantly to improve.

 $(\star)$ This ambition is set out in ourenvironmental guidelines.

Sustainable management also means using energy and raw materials as efficiently as possible and making appropriate use of renewable resources. We avoid environmental impacts such as emissions, noise, waste and waste water whenever possible and keep them low if they cannot be avoided. Our environmental management system ensures the planning and implementation of our environmental goals.

We constantly work to ensure compliance with environmental laws, ordinances and regulations. In addition, we strive to use the best possible technology within the scope of our economic possibilities and thus to constantly reduce the negative effects of our business activities on the environment. Our own environmental management system controls the responsibilities, processes and means for implementing our environmental measures. The requirements of occupational health and safety are also taken

➤ We record and evaluate the effects of our actions on the environment.

We systematically record our activities that have an impact on the environment. We document and assess them and derive targets and measures for improvement. We monitor the results of the implementation and optimise them.

**7** We assess the consequences for the environment before we make decisions.

In our economic decision-making processes, consideration of the resulting environmental impact is an indispensable component. If it becomes apparent that a decision will lead to a greater environmental impact, we specifically look for ways to reduce or avoid it. In this way, we ensure compliance with the environmental protection goals that are binding for us.

**7** Environmental protection is everyone's responsibility.

> In an open and comprehensive dialogue, management and staff work together towards the goal of continuously improving environmental protection in all areas of the company. Ongoing information and regular training promote the environmental awareness of the employees.

**↗** Environmental protection needs innovation. Where economically and socially justifiable, we use innovations and modern technologies to conserve resources and improve environmental compatibility.

Our environmental responsibility also applies to our surroundings.

We are committed to adhering to our guidelines and environmental goals at all our locations. We will also enforce them in all cross-company projects and participations within the scope of our possibilities. For us, compliance with environmental standards is a criterion for the selection of our contractual partners. We inform our customers and suppliers about our achievements in environmental protection and give them suggestions on how they can support us in our efforts.

#### Our principle is openness.

We take concerns about environmental impacts associated with our activities seriously. We engage in constructive dialogue with the authorities and the public. We are aware that only honest information can create trust. The regularly published environmental report forms the basis of this communication.

#### Munich, April 2023

**Jens Ritter** CEO Lufthansa Airlines

Wolfgang Diefenbach Managing director Lufthansa CityLine GmbH Lufthansa CityLine GmbH

Tehly

Jens Fehlinger Managing director



STUTZENBERGER, ISABELL 2 Freigaben • Von 431 angezeigt •••	15. Juni 2022 • Bearbeitet 3 Freigaben • Von 373 angezeigt •••
♥Entsorgst du noch oder recycelst du schon? ♥ Ich bin Isabell und seit November 2021 setzte ich mich als Umweltbeauftragte der H und LHA MUC für die Umweltbemühungen unserer Unternehmen ein! Zusammen mit n Umweltkoordinator:innen aus vielen Bereichen wollen wir weiterhin Stück für Stück ein	Zwei Wochen 9€-Ticket  Zeit für eine Zwischenbilanz (+ VERLOSUNG!) Welchen Unterschied macht es im Juni den ÖPNV anstelle des Autos zu nutzen? Einfach auf die Bilder klicken und vergleichen! Und als Highlight gibt's zusätzlich noch einen tollen Tipp für einen Ausflug!
chen grüner werden. <b>&gt;</b> #GlobalRecyclingDay wollen wir auf die Bedeutung der sogenannten 7. Ressource nerksam machen und einige Initiativen in und außerhalb der Unternehmen Immenfass Mehr anzeigen	Kurzgesagt: ✔ Geld gespart ✔ CO2 gespart ✔ Zeit für dich gewonnen
	Oft ist das eigene Auto am schnellsten, bequemsten oder praktikabelsten, aber manchmal ist der Unterschied kleiner als gedacht und Ihr könnt die Zeit viel Mehr anzeigen
Section of the sectio	Das bringt es, wenn du im Juni mit den Öffentlichen zur Arbeit fährst wenn du von München (Candidplatz) zur Technikhalle 1 kommst:
	ÖPNV         Auto1           Kosten: 9 Euro2         Kosten: 202 Euro3           Zeit: 39 h 20 min (pro Fahrt 59 min)4         Zeit: 31 h 40 min (pro Fahrt 48 min)4           CO2: 96 kg         CO2: 296 kg
	1) Benzeer, Vetorauch 7,2 Uter / 100 km - 2) voli Ticket MVV repaire 150;75 Euro 3) Reine Sprithouter: Sprithouter: Sprithouter ISP 64, Specific - 4) Advante Montaga B Uni, 20 Advetstage
	Des bringt es, wenn du in Juin mit den Offentlichen er Arbeit Blanz.         Das bringt es, wenn du in Juin mit den Offentlichen Arbeit Blanz.         Ausfauguste Juin den Offentlichen Blanz Arbeit Blanz.         Ausfaugu
	Sustainability



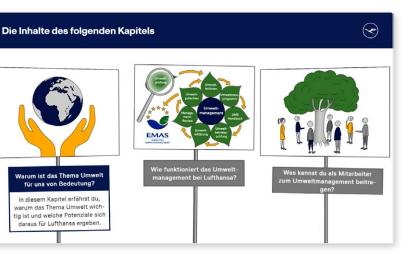
(01)

Sustainability

"Environmental protection is everyone's responsibility" – this is what our environmental guidelines state. If our employees know what environmental and climate impacts are associated with the individual company processes and what strategic goals we have set ourselves in the field of environmental protection and resource conservation, they can better participate and contribute their own ideas. Communication, information and further training therefore play a major role in our environmental management system. The Environmental Officers regularly take part in editorial meetings of the Corporate Communications team.







(02)





#### 01 #sustainability

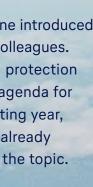
In the joint internal media, such as the news app ONE and our internal social media network Yammer, we provide information about environmentally relevant measures and present projects under the hashtag #sustainability. Competitions and other campaigns invite people to participate, for example in the World Recycling Day or the 9-Euro-Ticket.

#### 02 Know how

Practically relevant information about environmental protection requirements in work processes is on the agenda in various specialised training courses. The general environmental training already established at Lufthansa CityLine is now also available for ground employees of Lufthansa Airlines.

03 Environmental lounge in the FOC On the first floor of the shared FOC office building, a seating area is dedicated to climate and resource protection. There is an idea board, the environmental policy is displayed and there is plenty of reading material for the coffee break - such as the Integrated Environmental Statement, sustainability reports and information flyers on corporate environmental protection.

#### 04 Welcome with environmental benefits In 2022, Lufthansa CityLine introduced a Welcome Day for new colleagues. Corporate environmental protection is an integral part of the agenda for the first day. In the reporting year, 60 new employees were already directly familiarized with the topic.



# Our Highlights

Selected measures from the environmental program 2022 of Lufthansa Airlines and Lufthansa CityLine.

#### Sustainability always considered

Since the second half of the reporting year, an evaluation of environmental, social, and governance aspects has been a mandatory part of the approval process for project and routine proposals. In addition to economic considerations, the ESG (Environmental, Social, Governance) evaluation has been firmly integrated into the template for the Lufthansa Airlines Board (divisional board). This evaluation strengthens transparency to a greater extent and supports a deeper examination of ecological and social effects at the Executive Board level.

#### CO<sub>2</sub> compensation made easy

Wherever our customers come into contact with us, we offer CO<sub>2</sub> compensation options: during the booking process, through the so-called corporate fares in the B2B segment, on the flight itself, or afterwards via the Lufthansa Group platform compensaid. On this website, the CO<sub>2</sub> emissions of the individual flight can be precisely calculated.

Sustainable Aviation Fuel (SAF) is available, as well as climate protection projects for a sustainable offset of  $CO_2$ emissions through our partner myclimate.

Starting in 2023, the Lufthansa Group will also be the first airline group worldwide to offer its own flight fare for more sustainable travel. The new "Green Fares" already include compensation for flight-related CO<sub>2</sub> emissions -20% through the use of sustainable aviation fuel and 80% through climate protection projects. In addition, Green Fares offer extra status miles and a free rebooking option.

#### Sustainable plastic alternative on board

We are getting closer to our goal of a single-use plastic-free onboard service: In 2022, we have partnered with the German start-up "traceless materials". The two founders have developed an innovative technology for producing biodegradable plastic alternatives from agricultural waste

 $(\checkmark)$ 



products. We use this material, which decomposes residuefree and can be recycled, for our food packaging on board. In this way, we support the young company on its path to industrialise their sustainable plastic alternative - and save up to 100 tonnes of PET plastic when fully introduced on our flights.

#### Naturally ahead

In 2022, Lufthansa Airlines designed and implemented a marketing campaign aimed at promoting environmental awareness and highlighting our company's efforts towards climate-friendliness and efficient resource utilisation.



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#### More accurate planning – less waste

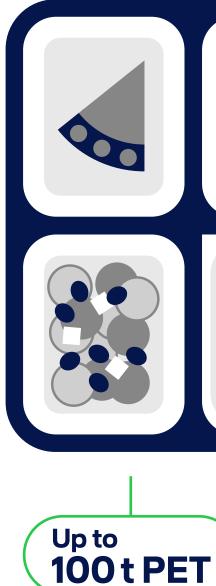
By continuously evaluating how much demand there is for certain meals on our scheduled flights, we gain more accurate information about needs: this allows us to plan our loading more precisely and avoid having to dispose of surplus food. The waste rate for fresh food can thus be reduced by up to 45%.

#### **Closing the recycling loop**

What has already been initiated in Frankfurt, we also want to introduce - and expand - in Munich: there, empty PET bottles generated during our onboard service will be fed into a closed recycling loop. This means that it is important to ensure that the product quality is maintained - in other words, that a bottle is transformed back into a bottle. In Frankfurt, Lufthansa Airlines collaborates with airport operators to return PET bottles to a selected water bottle manufacturer, resulting in a total of 88 tonnes of PET being recycled in 2022. In Munich, we aim to introduce the concept in collaboration with Eurowings Discover, and to recycle all suitable PET items from onboard products in a closed loop. The project is currently in the conceptual phase and is expected to start in 2023.

#### Paperless office by 2025

Around 12 tonnes of paper are consumed every year at Lufthansa Airlines Munich alone, despite numerous successful digitisation steps. Therefore, we have set ourselves the goal of almost completely dispensing with paper in our administrative processes by 2025. On the way there, we continue to rely on consistent digitisation. We have also introduced an office supplies shop through which all areas have been ordering centrally since 2022. Previously, around 260 individual orders had led to the purchase of containers that were often too large. As a new standard, we have also established a recycling rate of 100% for paper products



as well as other eco-criteria. From 2023, we will introduce new, less and only centrally available printers with standard settings such as black and white and double-sided printing. We are examining recycling alternatives for printer cartridges. From 2023, Lufthansa CityLine and other companies based in the FOC will also participate in the office supplies shop.

#### **Corks for the crane**

1.2 billion corks are produced in Germany every year, only about 10% are recycled – the rest ends up in the rubbish. However, cork is a natural product obtained from cork oaks,



replaced by sustainable plastic alternative

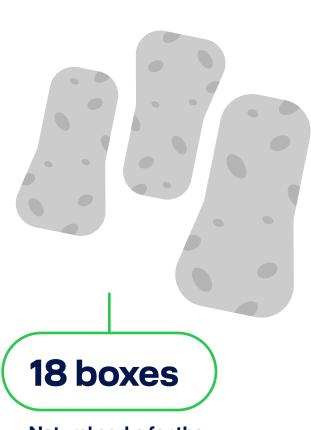
mainly from Portugal. Their deforestation leads to the loss of nesting sites and hibernation opportunities for the crane - the heraldic figure of Lufthansa. Lufthansa Airlines and Lufthansa CityLine want to contribute to a better recycling rate: since 2022, we have been collecting corks in Munich that remain from the onboard service. In addition, employees are invited to donate their private corks. In this way, more than 18 boxes of corks were collected in 2022 for the NABU's "KORKampagne". The association aims to promote recycling while creating jobs for people with disabilities and long-term unemployed persons. They process the cork into insulation material. The proceeds finance educational work and nature conservation projects. The Frankfurt location also wants to participate in cork collection as soon as logistical questions are clarified.

#### **OPS Sustainability Program supports** CO<sub>2</sub> reduction goals

All flight operations departments of the Lufthansa Group participate in the "OPS Sustainability Program", which aims to contribute to a sustainable reduction of operational  $CO_2$ emissions by 2030. To achieve this, efficiency measures are implemented along the entire operational production chain – from flight preparation, through the flight itself, ground handling, to data-based flight analysis. All Lufthansa Group airlines benefit from a uniform, cross-operational approach and a continuous exchange. In this way, standards for efficient and sustainable flight operations are to be established for all.

In a first step, 90 project ideas will be implemented by 2025 and accompanied by targeted training and communication measures. The reductions in CO<sub>2</sub> emissions achieved in the program will be continuously accounted for and are thus an essential building block for achieving the Lufthansa Group's SBTi goals.

The flight operations of Lufthansa Airlines alone processed about 14,000 applications digitally in 2022. Previously, one to eight sheets of paper were necessary per application, sometimes in several copies. Lufthansa CityLine now uses a digital signature for all contracts. This measure saves 5,000 sheets of paper per year and eliminates transport routes.



Natural corks for the NABU KORKampagne





### Field of action: Fuel efficiency (selection)

Goal	Measure	Timeline	Status	Description
Reduction of flight- related greenhouse gas emissions	Scientific validation of CO₂ reduction target	2022	<b>%</b>	The Science Based Targets init confirmed that the CO <sub>2</sub> reduct Lufthansa Group is in line with Climate Agreement. It envisage specific CO <sub>2</sub> emissions per tran metre (passenger and freight) I 2030 compared to 2019.
	Optimisation of the rate of climb	2022	<b>%</b>	Additional information has been the Flight Profile Optimizer, wh fuel-efficient flight performance further reduction of fuel consu Annual kerosene savings for Lu 2,374.5 tonnes.
	Bus service replaces air travel on the route Nuremberg-Munich	2021 until 2022	<b>%</b>	Since 2021, instead of a plane, Bus operates four times a day Munich, and the boarding pass Since January 2022, baggage in before departure in Nurembo automatically transported to th in Munich.
	Intermodal traffic to Frankfurt and Zurich Airport from Munich main station	2022	<b>%</b>	With the further expansion of t Rail service, train connections and Frankfurt Airport are availa flight numbers, connection gua reservation.
	Weight savings by dispensing containers in the hold of the A319	2022	<b>%</b>	Lufthansa CityLine loads the si from Austrian Airlines loosely, a five possible loading positions Calculated weight savings per 445 kilograms, which correspo kerosene savings of up to 49.8
	Weight savings through removals in the passenger cabin of the A319	2022	<b>%</b>	Lufthansa CityLine has remove Dangerous Good Kits and galle A319s. Weight savings per airc which corresponds to around 3 per year when calculated for th
	Weight savings by omitting service unit	2022	<b>%</b>	Apples from the onboard produ are now delivered in a single se two. This is one of the results of joint workshops with the cater at optimizing the loading proce

All data on kerosene savings refer to Lufthansa Airlines' and Lufthansa CityLine's flight operations across all locations.

Status

**completed** 

	Goal	Measure	Timeline	Status	Description
sed Targets initiative (SBTi) has the CO <sub>2</sub> reduction target of the p is in line with the goals of the Paris nent. It envisages a reduction of nissions per transported tonne-kilo- ler and freight) by 30.6 percent by	Compensation of flight-related greenhouse gas emissions	CO₂ compensation along the entire customer journey	2022	~	Whether during the booking process, as a ticket (Green Fares), in the B2B segment (Corporate Fares), on the flight or afterwards via compensaid: passenge are given the option of CO <sub>2</sub> compensation everywhere as via long-term environmental protection projects o direct CO <sub>2</sub> minimisation via SAF.
d to 2019. mation has been integrated into e Optimizer, which is used to calculate ight performance. This allows for		CO₂ compensation as a contractual service (PartnerPlus Progress)	2022	<b>%</b>	For contract periods starting in January 2022, the CC emissions of flights booked through the Corporate Value Fares component of Lufthansa will be offset in the PartnerPlus Progress contract form.
on of fuel consumption during the climb. e savings for Lufthansa Airlines: 		CO₂ reduction through sustainable aviation fuels (SAF)	2022	<b>%</b>	Since July 2022, the PartnerPlus Benefit corporate incentive program has offered the individual option of purchasing SAF with Benefit points to reduce CO <sub>2</sub> emissions.
our times a day between Nuremberg and e boarding pass serves as the ticket.					

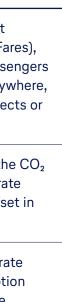
ad of a plane r times a day poarding pas 22, baggage can already be checked ure in Nuremberg and will then be nsported to the connecting flight

expansion of the Lufthansa Express connections from Munich to Zurich port are available with Lufthansa onnection guarantee, and seat

ne loads the six Airbus A319s acquired ines loosely, and the containers at ling positions are not needed. it savings per aircraft: up to hich corresponds to fleet-specific of up to 49.8 tonnes per year.

ne has removed the redundant Kits and galley curtains from the vings per aircraft: two kilograms, ds to around 3.5 tonnes of kerosene culated for the entire fleet.

onboard product "Tasting Heimat" l in a single service unit instead of f the results of the regularly held vith the catering company aimed loading process.



## Field of action: Energy and resource efficiency (selection)

						Timeline	Status	Description								
Introduction of biodegradable plastic for food packaging	2022		In 2022, a partnership was established with the start-up "traceless materials", which has developed a biodegradable plastic alternative from agricultural waste products. As a result, up to 100 toppes of plastic	Increasing resource efficiency	Replacement of check-in machines and computers at the gate in Terminal 2	2022	50	The check-in machines and computers at the gates have been replaced with more energy-efficient devices.								
Reduction of food waste on board	2022	<b>%</b>	can be saved in onboard products in the future. By continuously analyzing flight-specific demand for food, the required amount of supplies and thus the precise loading to be ordered can be predicted more									n be saved in onboard products in the future.	Insulated glazing for roof of the technical hangar 1	2022	<b>%</b>	The single-glazed shed roof has so far caused significant heat loss in the hangar. The new insulated glazing is expected to require less heating. The ceiling load capacity is not sufficient for the installation of a solar system.
Closed recycling loop for PET bottles	2022 until 2023		After a successful launch in Frankfurt, the recycling loop for PET bottles handed out on board will also be					Sustainable marketing articles in sales	2022	50	In the future, no disposable items will be used to promote destinations among travel agency employees. In 2022, spice jars were used instead.					
Participation in IATA recycling initiative	2022		PET were recycled in 2022. The initiative of the international roof organization of airlines aims to increase the recycling rate on board, among other things, through best practice exchange.		Paperless office MUC	2022 until 🗾 🗲		In its vision statement, Lufthansa Airlines has expressed its goal for Munich to work in a more resource-efficient and paperless manner by 2025. Measures on the way there include consistent digitization, central ordering of paper (see below),								
Vegan/vegetarian menu option in Business Class	2022	<b>&gt;</b> 0	On medium-haul flights, a vegan or vegetarian option is offered on the menu. In the future, a meat-free option can also be ordered on long-haul flights.					as well as new standard settings such as black-and- white and double-sided printing with the rollout of new printers.								
<ul> <li>Artificial intelligence for food waste prevention</li> <li>2022</li> <li>The first test run for the use of artificial intelligence to avoid food waste for on-board catering was initiated.</li> <li>Source</li> <li>Energy and resource-</li> <li>2022</li> <li>A series of measures were completed in 2022.</li> </ul>		Introduction of a central office supplies store	2022 until 2023		Unlike the previous 260 individual orders per year, centralised and more efficient ordering can now be done with less logistical effort. 100% recycled paper and other eco-criteria have been set as the standard. From 2023 onwards, Lufthansa CityLine will also											
		A series of measures were completed in 2022. These include the installation of two energy-efficient					participate in the office supplies shop, following Lufthansa Airlines Munich's lead.									
technology at the FOC			heating pumps and water-saving aerators, as well as the reduction of flow temperatures and the throttling of ventilation.		Collection for the KORKampagne of the NABU	2022	<b>%</b>	18 full crates of natural cork were collected in Munich in 2022 – both from private sources and the onboard service (about three corks per longhaul flight).								
Conversion to LED lamps in the FOC	2022 until 2023		With the completion of the conversion, the average energy consumption is reduced by two-thirds or 7,128 kWh.					In the recycling project of the NABU, integration workshops produce insulation materials from the cork. The collection is also planned to be permanently intro- duced in Frankfurt.								
Consistently switching off lights in the FOC	off lights in the FOC 24-hour operation, security personnel were called upon		More efficient transfor- mers in technical hangar 4	2022 until 2024		Two older power converters will be replaced by 2024. Savings per device and year: around 350 kWh.										
			In addition, all employees were urged to save energy, and stickers in the restrooms and meeting rooms		Use of the online version instead of printed IATA manuals	2020 until 2022		After Lufthansa CityLine had electronic access to the online platform in 2022, printed books will be ordered again for 2023. The reason: IATA has significantly increased the licenses for electronic access. Each airline would have to purchase its own floating license worth around USD 11,000 per year, while procuring								
	biodegradable plastic for food packaging Reduction of food waste on board Closed recycling loop for PET bottles Participation in IATA recycling initiative Vegan/vegetarian menu option in Business Class Vegan/vegetarian menu option in Business Class Energy and resource- efficient building technology at the FOC Conversion to LED lamps in the FOC	biodegradable plastic for food packagingReduction of food waste on board2022Closed recycling loop for PET bottles2022 until 2023Participation in IATA recycling initiative2022Vegan/vegetarian menu option in Business Class2022Artificial intelligence for food waste prevention2022Energy and resource- efficient building technology at the FOC2022 until 2022Conversion to LED lamps in the FOC2022 until 2023Consistently switching2022	biodegradable plastic for food packagingReduction of food waste on board2022Closed recycling loop for PET bottles2022 until 2023Participation in IATA recycling initiative2022Vegan/vegetarian menu option in Business Class2022Artificial intelligence for food waste prevention2022Energy and resource- efficient building technology at the FOC2022Conversion to LED lamps in the FOC2022 until 2023Consistently switching2022	biodegradable plastic for food packagingstart-up "traceless materials", which has developed a biodegradable plastic alternative from agricultural waste products. As a result, up to 100 tonnes of plastic can be saved in onboard products in the future.Reduction of food waste on board2022Image: Second	biodegradable plastic for food packagingStart-up "traceless materials", which has developed a biodegradable plastic alternative form agricultural waste products. As a result, up to 100 tonnes of plastic can be saved in onboard products in the future.efficiencyReduction of food waste on board2022Start-up "traceless materials", which has developed a saved in onboard products in the future.efficiencyReduction of food waste on board2022Start-up "traceless materials", which has developed to an educe waste by up to 45 percent.Closed recycling loop tor PET bottles2022 until 2023After a successful launch in Frankfurt, the recycling loop for PET bottles handed out on board will also be closed in Munich. 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As a result, up to 100 connect of plastic can be saved in nobeard products in the future.       efficiency       methines and computers and the gradient formalizity methines of plastic can be saved in nobeard products in the future.         Reduction of food waste on board       2022       efficiency       Proofficiency in the future.       Insulated glastic for model of the technical honger1         Closed recycling loop for PET bottles       2022 until 2023       efficiency       Affer a successful launch in Frankfurt, the recycling into the board will albe be closed in Munch. In Finkfurt, a total of 88 tonnes of petrover inscience and the two-set among other things, through best practice exchange.       Future.         Vegan/vegetrain menu option in Buildegrade prover intices       2022       efficiency       The initiative of the interaction of among other things, through best practice exchange.       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## Field of action: Energy and resource efficiency (selection)

Goal	Measure	Timeline	Status	Description	Goal	Measure	Timeline	Status	Description
Increasing the resource efficiency	Maintenance of air com- pressors in the Frankfurt maintenance hangars	2022		Regular audits increase energy efficiency in the compressed air supply sector by replacing inefficient or outdated equipment with more modern models or decommissioning it.	Saving resources due to digitalisation	Digital shift handover (maintenance)	2022	5	A digital tool is now available for shift handovers. Previously, printouts with multiple pages per employe had to be passed on (information on hall occupancy and materials, work packages, lists of employees).
•	Regional suppliers for events, film and photo supplies	2022	<b>%</b>	Through strategic integration, regional delivery companies are used for events as well as film and photo supplies. This reduces transport distances and the associated emissions.	•	Conversion from physical procurement authorisa- tions to electronically signed powers of attorney (incl. archiving)	2022	<b>%</b>	The implementation of electronically signed powers of attorney has allowed a smooth transformation awa from traditional physical procurement authorisations.
Saving resources due	Recycling of produced exhibition stands	2022	<b>%</b>	Since 2022, special attention has been paid at trade fair events to reusing items and materials already produced from previous exhibition stands and repro- cessing or repurposing them for new booths.	Expansion of the environmental management system	OPS Sustainability Program	2022 until 2023	<b>,</b>	Efficiency-enhancing measures to reduce CO <sub>2</sub> emissio are continuously implemented and assessed across the entire operational production chain across the group.
Saving resources due to digitalisation	Digitalisation of emergency checklists	emergency checklists       2023       required checklists were successful, and the permanent implementation is imminent.         Electronic signature for contracts       2022       Image: Contracts with DocuSign, eliminating printouts completely. Savings per year: around 5,000 sheets of paper. In addition,	•	Extension of the environmental management system	2022 until 2023	<b>%</b>	Currently, around 90 projects are in the planning stag With the successful validation according to EMAS of the Frankfurt site, Lufthansa Airlines has implemented an overarching environmental management system at		
	Electronic signature for contracts	2022	DocuSign, eliminating printouts completely. Savings	•	to the Frankfurt site	2022	<b>.</b>	both hubs. Together with Lufthansa CityLine, measure can be taken on a cross-company basis in the future. With the goal of learning from each other and using	
	Digital documentation of the employee performance reviews	2022	<b>,</b>	The technical requirements for digital documentation of annual employee interviews at Lufthansa CityLine have been established. The implementation has started in the HR department and other departments are		with those responsible for the environment at the site and beyond			synergies, the environmental officers and the sustain- ability team of Lufthansa Airlines meet regularly with sustainability and environmental officers from the airports Munich and Frankfurt as well as from partner companies of the Lufthansa Group.
				expected to follow. The savings in the administration department with full implementation: around 3,000 sheets of paper per year.	•	<ul> <li>Environmental coordinators for the location Frankfurt</li> <li>Key Performance Indicators (KPI) Score Card for the evaluation of consumption values and carbon footprint of contracted suppliers (hotel)</li> </ul>	2022 bis 2023	<b>%</b>	As part of the expansion of the environmental management system, environmental coordinators we also appointed for the departments at the Frankfurt
	New edition "Jobrad"	2022		BikeLeasing was won as a new partner. This allows employees to lease an e-bike through their employer.			2022		hub, and the team has grown to around 40 people.
	Digital mail service	2022	<b>%</b>	In Lufthansa CityLine's flight operations, outgoing mail that cannot be sent via email will be transmitted completely digitally after successful testing of the ePost Mailer. The printing and enveloping will be handled by the postal services in the receiving centre. This eliminates a large part of the logistical effort involved in letter transport.				<b>.</b>	The implementation as well as continuous mainte- nance of a KPI Score Card ensures that consumption values and the carbon footprint of selected hotels are presented transparently.
	Waiver of shipment of original documents (maintenance)	2022	<b>%</b>	So far, original documents requiring proof from Lufthansa CityLine's technical department were sent between Frankfurt and Munich in aluminum cases. The use of an electronic form now makes this obsolete.					

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### Field of action: Energy and resource efficiency (selection)

Goal	Measure	Timeline	Status	Description	Goal	Measure	Timeline	Status	Description	
Expansion of the environmental management system	Sustainability evaluation as a fixed component in management board templates as basis for decision-making	2022 until 2023		environmental	environmental	campaign for World	2022		Around 2,500 Lufthansa employees from 26 countri participated in the cleanup day to remove waste fror the environment, filling a total of 2,400 trash bags. The environmental management in Munich organise joint collection campaign at Munich Airport. For eve filled trash bag, the Lufthansa Group donated to the organisation HelpAlliance, resulting in a total of EUR 10,000 in donations.	
•	Expansion of staff resources in the environmental sector	2022 until 2023	<b>%</b>	Both in the Lufthansa Airlines cabin and flight operations, personnel resources have been and will be further created. These support the development and implementation of measures within the environ- mental program.			Communication campaign for the 9-euro ticket	2022	<b>%</b>	A short video "9 questions about the 9-euro ticket" provided case studies on saving money and emissio on the way to work. A competition ("How do you spe your time on public transport?") encouraged people get involved.
Strengthening environmental communication	Communication campaign "Umwelten voraus"	2022	<b>%</b>	A campaign of Lufthansa Airlines' external communi- cation has highlighted measures for more sustainability and climate-friendliness.			Training concept for the Due Diligence Act on Supply Chains	2022	<b>%</b>	Lufthansa CityLine has launched a training that addresses environmental aspects and their important in the evaluation of the already introduced supplier questionnaires.
	Green Lounge at Munich Airport	2022 until 2024	-	The requirements for a passenger lounge that system- atically considers sustainability aspects, including construction, furnishings, and food, have been defined. The implementation is currently being prepared.		Acquisition of new mem- bers for the "Umwelt AG" of the cabin	2022	<b>%</b>	Overall, six new members were added to Lufthansa CityLine's "Umwelt AG" working group. There is an intense exchange with the environmental manageme team.	
	Environmental lounge for employees	2022 until 2023	<b>,</b>	A first environmental lounge with numerous informa- tion materials on sustainability at Lufthansa has been set up in the FOC. Another lounge for employees in Terminal 2 is planned.		Education of flight attendants with a focus on environmental topics	2022	<b>%</b>	As part of further training, 26 new Supervision Fligh Attendants (SFA) were trained as multipliers on environmental topics at Lufthansa CityLine and received in-depth training on environmental issues	
	Expansion of environmental training	2022	<b>%</b>	The environmental training that has been used at Lufthansa CityLine for some time is now also avail- able for ground staff at Lufthansa Airlines. In 15 minutes, it provides practical tips for more environmental protection in day-to-day operations.		Presentation of the environmental management system at the Welcome Day	2022	<b>%</b>	in daily operation. During the welcome event for new employees at Lufthansa CityLine, 15 minutes are scheduled as standard, during which the environmental officer presents the environmental management system, rai	
	Reopening and further development of the Green Gate in the satellite of Terminal 2	2022 until 2023		After the closure due to COVID-19, the special expe- rience world that playfully informs passengers about efficiency, environmental and animal protection, as well as sustainability, has reopened. Some technical and content-related developments have already been made, with further ones planned for 2023.	Field of acti	on: Active noise at	pateme	nt	awareness for the topic, and motivates to participate	

in implementation



In 2022, Lufthansa Airlines and Lufthansa CityLine did not implement any new environmental measures in the field of noise protection. We continued to implement the measures that have been taken so far on an ongoing basis. In addition, measures that lead to a change in the flight path and thus to a saving of kerosene often also contribute to this field of action.

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# **Environmental Balance Sheet**

The environmental and transport performance indicators of Lufthansa Airlines and Lufthansa CityLine reflect the increase in passenger demand and the resulting ramp-up of production after the pandemic.

The transport performance (in tonne-kilometres) of Lufthansa Airlines has almost doubled compared to the previous year, while at Lufthansa CityLine it has increased by 80 percent. However, the absolute fuel consumption has not increased to the same extent. At Lufthansa Airlines, it is 80 percent higher than the previous year, while at Lufthansa CityLine, it is 56 percent higher. This recovered efficiency gain is shown in the decoupling graphics. With increased capacity utilisation, the specific consumption has decreased and is even below the pre-crisis level of 2019 for Lufthansa Airlines in the passenger sector (3.50 litres versus 3.65 litres per 100 passenger-kilometres).

In summary, the consumption has increased compared to the previous year, but in the longer-term comparison of annual values, an efficiency improvement can be observed.



# 3.51/100 pkm

## Specific fuel consumption

With the increased capacity utilisation, the specific consumption has decreased and is even below the pre-crisis level of 2019 for Lufthansa Airlines in the passenger sector (3.50 litres versus 3.65 litres per 100 passenger-kilometres).

# -32.5%

Lufthansa CityLine was able to reduce the amount of gasoline and diesel fuel consumed by its operational ground vehicles by around one-third compared to 2019 (44,836 litres versus 66,445 litres).

The energy and water consumption of hangar 5 in Frankfurt has been reduced significantly compared to 2019.

-7.2% Electricity

-14.3% Heating

-26.6% Water



## **Company and Transport Performance Indicators**

## Lufthansa Airlines

Company key figures						
MUC	Unit	2022	2021	2020	2019	+/- PY in %
Employees	Number	8,762	9,258	9,959	9,851	-5
thereof: Cockpit	Number	1,543	1,587	1,600	1,645	-3
Cabin	Number	5,161	5,530	5,730	6,164	-7
Aircraft	Number	81	50	30	98	62
Operational ground fleet*	Number	136	131	44	43	4

Company key figures						
FRA	Unit	2022	2021	2020	2019	+/- PY in %
Employees	Number	20,218	21,747	22,635	21,546	-7
thereof: Cockpit	Number	2,900	3,094	3,163	3,109	-6
Cabin	Number	12,422	13,519	13,873	14,654	-8
Apprentices	Number	20	21	45	33	-5
Aircraft	Number	161	145	71	181	11
Operational ground fleet	Number	320	-		-	

Transport key figures						
across locations	Unit	2022	2021	2020	2019	+/- PY in %
Aircraft	Number	242	195	101	280	24
Flights	Number	274,360	152,438	124,913	394,102	80
Passengers	Number	40,604,283	18,668,488	14,167,547	58,806,557	118
Seat kilometres offered, SKO	Mio. pkm	127,909	75,454	57,177	187,666	70
Freight kilometres offered, FTKO	Mio. tkm	4,526	2,840	2,243	5,956	59
Tonne-kilometres offered, TKO	Mio. tkm	17,507	10,486	8,036	24,935	67
Passenger kilometres, PKT	Mio. pkm	105,063	46,350	36,406	159,393	127
Freight tonne kilometres, FTKT	Mio. tkm	2,325	1,940	1,375	3,371	20
Tonne-kilometres, TKT	Mio. tkm	12,906	6,605	5,042	19,433	95
,		,	,	,		

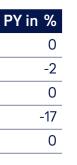
\* Increase due to integration of aircraft maintenance

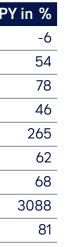
More information on data delimitation and calculation methodology as well as footnote resolution on page 35.

## Lufthansa CityLine

Unit	2022	2021	2020	2019	+/- P`
Number	2,071	2,066	2,143	2,186	
Number	602	616	624	630	
Number	846	842	863	896	
Number	19	23	30	33	
Number	44	44	46	46	
	Number Number Number Number	Number         2,071           Number         602           Number         846           Number         19	Number         2,071         2,066           Number         602         616           Number         846         842           Number         19         23	Number2,0712,0662,143Number602616624Number846842863Number192330	Number2,0712,0662,1432,186Number602616624630Number846842863896Number19233033

Transport key figures across locations	11.54	2022	2021	2020	2010	
	Unit	2022	2021	2020	2019	+/- PY
Aircraft	Number	50	53	52	55	
Flights	Number	89,105	57,767	52,229	116,132	
Passengers	Number	6,154,697	3,451,889	2,693,795	8,068,161	
Seat kilometres offered, SKO	Mio. pkm	4,832	3,313	3,585	10,636	
Freight kilometres offered, FTKO	Mio. tkm	84	23	47	211	
Tonne-kilometres offered, TKO	Mio. tkm	612	377	424	1,313	
Passenger kilometres, PKT	Mio. pkm	3,699	2,200	2,243	8,581	
Freight tonne kilometres, FTKT	Mio. tkm	29	1	20	111	
Tonne-kilometres, TKT	Mio. tkm	399	221	245	974	







## **Environmental Figures** Lufthansa Airlines

Environmental figures Lufthansa Airlines	Unit	2022	2021	2020	2019	+/- PY in %
Fuel consumption (flight operations) 1,2,4						
Fuel consumption, absolute	t	3,553,821	1,990,749	1,615,259	5,548,178	79
Fuel consumption, specific, passenger transport	l/100 pkm	3.50	3.78	4.00	3.65	-7
Fuel consumption, specific, freight transport	I/FTKT	0.34	0.39	0.41	0.34	-13
Carbon dioxide emissions (flight operations) <sup>1,3,4</sup>						
Carbon dioxide emissions, absolute	t	11,194,537	6,270,859	5,088,066	17,476,759	79
Carbon dioxide emissions, specific, passenger transport	kg/100 pkm	8.79	9.48	10.06	9.18	-7
Carbon dioxide emissions, specific, freight transport	kg/tkm	0.84	0.97	1.04	0.84	-13
Nitrogen oxide emissions (flight operations) <sup>1,3,4</sup>						
Nitrogen oxide emissions, absolute	t	50,166	28,366	23,488	85,331	77
Nitrogen oxide emissions, specific, passenger transport	g/100 pkm	39.21	43.18	48.35	44.72	-9
Nitrogen oxide emissions, specific, freight transport	g/100 tkm	3.86	4.31	4.53	4.20	-10
Carbon monoxide emissions (flight operations) <sup>1,3,4</sup>						
Carbon monoxide emissions, absolute	t	8,332	4,395	3,096	10,314	90
Carbon monoxide emissions, specific, passenger transport	g/100 pkm	6.86	7.41	6.85	5.63	-7
Carbon monoxide emissions, specific, freight transport	g/100 tkm	0.48	0.50	0.46	0.40	-3
Fuel dumps <sup>1,2,4</sup>						
Events, total	Number	28	2	3	15	1300
Medical reasons	Number	12	0	2	9	
Technical reasons	Number	14	1	1	6	1300
Other reasons	Number	2	1	0	0	100
Fuel volume	t	892	80	107	470	1015
Fuel consumption (operational ground vehicles) MUC⁵						
Fuel consumption*		153,958	75,194	23,690	87,663	105
Fuel consumption per vehicle	I	1,158	574	538	2,039	102
Fuel consumption (operational ground vehicles) FRA⁵						
Fuel consumption**		220,780				
Fuel consumption per vehicle***		789				

\* Fuel consumption per vehicle

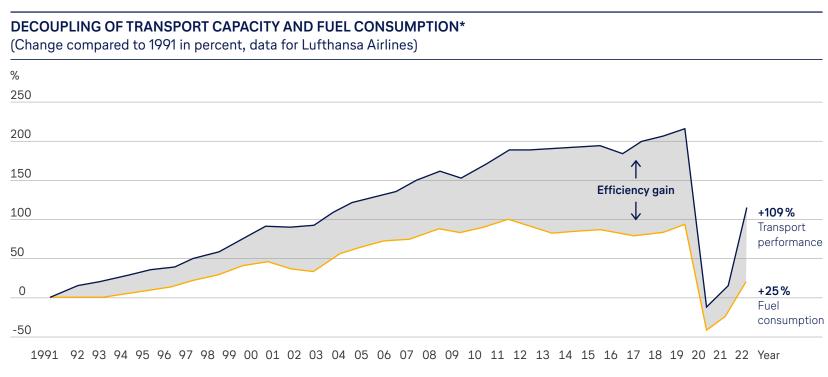
\*\* Previous year's figures not available

\*\*\* Fuel consumption only included for aircraft maintenance vehicles

More information on data delimitation and calculation methodology as well as footnote resolution on page 35.

E





\* All scheduled and charter flights operated by Lufthansa Passenger Airline.

Excluded from this are services provided by third parties, as no influence can be exerted on their performance.



# **Environmental Figures** Lufthansa Airlines

Environmental figures Lufthansa Airlines	Unit	2022	2021	2020	2019	+/- PY in %
Material consumption FRA						
Paper <sup>7</sup>	t	13	11	10	29	10
Proportion of recycled paper	%	56	60	38	78	-6
Paper per employee	kg	1.43	1.23	1.05	2.97	16
Hazardous substances **	t	20	-	-	-	-
Hazardous substances per aircraft **	kg	250	-	-	-	-
Material consumption FRA						
Paper	t	26	8	13	21	204
Proportion of recycled paper	%	39	55	63	57	-29
Paper per employee	kg	1.27	0.39	0.59	0.96	227
Hazardous substances ** 0	t	0.77	0.77	-	-	0
Hazardous substances per aircraft **	kg	4.81	5.34	-	-	-10
Mobility						
Business trips ** (extrapolation)	Coupon	32,000	75,000		-	-57
Jobtickets MUC	Number	295	273	446	523	8
Jobtickets FRA **	Number	20,218				_

\* Increase through integration of aircraft maintenance

\*\* Previous year's figures not available

 $\circ$  The consumption data can currently only be updated in estimates

More information on data delimitation and calculation methodology as well as footnote resolution on page 35.



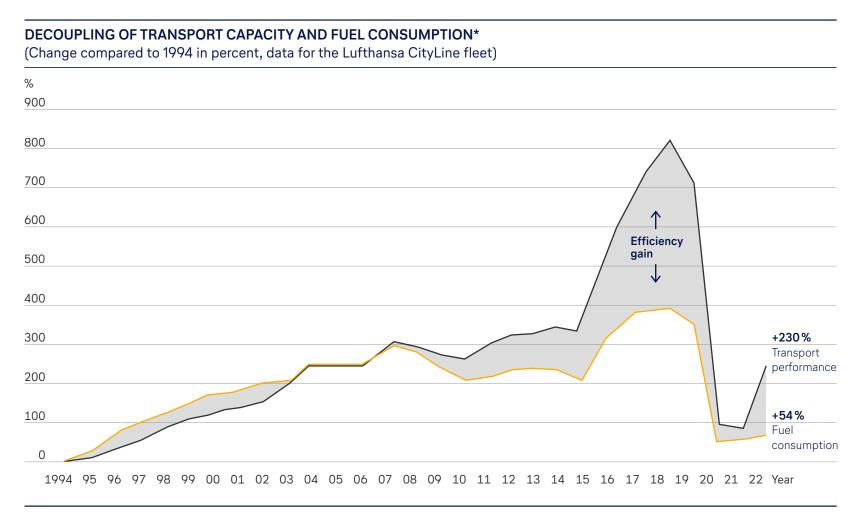
# **Environmental Figures** Lufthansa CityLine

Environmental figures Lufthansa Airlines	Unit	2022	2021	2020	2019	+/- PY in %
Fuel consumption (flight operations) <sup>1,2,4</sup>						
Fuel consumption, absolute	t	195,510	125,121	127,645	368,475	56
Fuel consumption, specific, passenger transport	l/100 pkm	6.31	7.08	6.78	4.95	-11
Fuel consumption, specific, freight transport	I/FTKT	0.39	0.92	0.37	0.33	-58
Carbon dioxide emissions (flight operations) <sup>1,3,4</sup>						
Carbon dioxide emissions, absolute	t	615,855	394,132	402,083	1,160,693	56
Carbon dioxide emissions, specific, passenger transport	kg/100 pkm	15.88	17.82	17.07	12.46	-11
Carbon dioxide emissions, specific, freight transport	kg/tkm	0.97	2.33	0.94	0.82	-58
Nitrogen oxide emissions (flight operations) <sup>1,3,4</sup>						
Nitrogen oxide emissions, absolute	t	2,269	1,407	1,570	5,013	61
Nitrogen oxide emissions, specific, passenger transport	g/100 pkm	57.65	63.67	65.52	52.31	-9
Nitrogen oxide emissions, specific, freight transport	g/100 tkm	4.64	6.50	4.94	4.71	-29
Carbon monoxide emissions (flight operations) <sup>1,3,4</sup>						
Carbon monoxide emissions, absolute	t	775	451	423	1.003	72
Carbon monoxide emissions, specific, passenger transport	g/100 pkm	20.21	20.41	18.40	11.19	-1
Carbon monoxide emissions, specific, freight transport	g/100 tkm	0.94	2.14	0.51	0.38	-56
Fuel consumption (operational ground vehicles) <sup>5</sup>						
Fuel consumption		44,836	40,730	44,380	66,445	10
Fuel consumption per vehicle	<u> </u>	1019	926	965	1444	10
Material consumption						
Paper <sup>7</sup>	t	4	2	3	5	48
Proportion of recycled paper**	%	78	80		-	-2
Paper per employee	kg	1.72	1.16	1.31	2.35	48
Hazardous substances	t	33	26	21	44	29
Hazardous substances per aircraft	kg	703	483	401	801	46
Mobility						
Business trips** (extrapolation)	Coupon	39,000	25,000		-	56
Jobtickets	Number	135	136	153	172	-1

\*\* Previous year's figures not available

More information on data delimitation and calculation methodology as well as footnote resolution on page 35.

E



\* All scheduled and charter flights operated by Lufthansa CityLine.

Excluded from this are services provided by third parties, as no influence can be exerted on their performance.



# **Environmental Figures** Buildings in MUC

Buildings in MUC <sup>6</sup>		Unit	2022	2021
01 FOC				
	Electricity	MWh	2,638	2,441
	District-heating	MWh	1,899	2,162
	Water	m <sup>3</sup>	9,022	5,485
	Wastewater	m <sup>3</sup>	12,201	6,541
	Effective area	m²	11,755	11,755
	Built-up area	m²	11,015	11,015
	Waste <sup>8</sup>	t	230	160
	thereof: Recovery	t	230	157
	Landfilling	t	0	3
02 Hangar 1	Electricity		3,641	3,314
• •	, District-heating	MWh	9,148	8,148
H	Water		4,939	4,905
	Wastewater		4,939	4,905
	Effective area		52,744	52,744
	Built-up area		35,449	35,449
	Effective area		7,443	7,443
	Waste <sup>8</sup>	t	76	47
03 Lounges				
	Electricity 🗆	MWh	1,767	1,139
$\stackrel{\frown}{\triangleleft}$	Electricity per passenger	KWh	1.05	2.01
	Effective area		10,377	10,377
	Waste <sup>8</sup>	t	352	483
	thereof: Recovery	t	340	478
	Landfilling	t	12	5
	Waste per passenger	kg	0.21	0.85
04 Administration building				0.40
		MWh	294	240
	Effective area	m²	5,385	5,385

Corrected due to new data basis

• The consumption data can currently only be updated in estimates

More information on data delimitation and calculation methodology as well as footnote resolution on page 35.

2020	2019	+/- PY in %
2,590	3,159	8
1,938	2,492	-12
5,264	13,505	64
4,865	14,952	87
11,755	11,755	0
11,015	11,015	0
194	265	44
191	258	46
3	7	-99

4,418

10,452

8,317

8,317 52,744

35,449

7,443

-

10

12

1

0

0

0 62

3,389

8,573

4,678

4,678

52,744

35,449

7,443

-

Buildings in MUC <sup>6</sup>		Unit	2022	2021	2020	2019	+/- PY in %
05 Hangar 4							
	Electricity	MWh	1,307	1,303	1,138	1,414	0
	District-heating	MWh	4,379	3,929	4,742	4,340	11
	Water	m <sup>3</sup>	1,540	1,027	1,871	2,150	50
	Effective area	m²	15,815	15,815	15,815	15,815	0
	Built-up area	m²	13,009	13,009	13,009	13,009	0
	Waste <sup>8</sup>	t	24	51	63	89	-53
	thereof: Recovery	t	9	47	59	84	-81
	Landfilling		15	3	4	5	338

#### 06 Training centre

<b>U</b>							
	Electricity	MWh	123	128	135	160	-4
	District-heating O	MWh	148	148	148	127	0
	Water O	m <sup>3</sup>	344	344	344	357	0
	Effective area	m²	2,077	2,077	2,077	2,077	0
	Built-up area	m²	2,077	2,077	2,077	2,077	0

1,015	2,415	55
1.53	0.87	-48
10,377	10,377	0
861	1,614	-27
855	1,596	-29
7	17	158
1.30	0.58	-75

152	697	23
5,385	5,385	0



# **Environmental Figures** Buildings in FRA

Buildings in FRA <sup>6</sup>		Unit	2022	2021	2020	2019	+/- PY in
07 Hangar 7							
	Electricity	MWh	67	293	201	404	
• 111	District-heating	MWh	80	437	359	422	
H	Water	m³	129	151	101	197	
	Effective area D	m²	382	382	382	382	
	Built-up area	m²	1,414	1,414	1,414	1,414	
	Waste <sup>8</sup>	t	14	7	16	31	
	thereof: Recovery	t	14	3	4	6	2
	Landfilling	t	0	4	11	25	
08 BG2							
	Electricity	MWh	5,353	4,489	3,570	4,261	
	District-heating	MWh	7,179	7,397	6,603	7,052	
	Water	m <sup>3</sup>	52,006	46,645	47,404	51,532	
	Wastewater	m <sup>3</sup>	52,006	46,645	47,404	51,532	
	Effective area	m²	15,834	15,834	15,834	15,834	
	Built-up area	m²	3,957	3,957	3,957	3,957	
	Waste <sup>8</sup>	t	196	12	142	214	1!
	thereof: Recovery	t	196	7	142	214	28
	Landfilling	t	0	5	0	0	
09 Further administration buildings/areas A							
	Electricity	MWh	14,452	11,789	11,358	14,587	
	District-heating	MWh	13,515	13,981	11,863	12,839	
	Water		74,694	46,645	47,404	51,532	
	Effective area	m²	27,341	27,341	27,341	27,341	
	Built-up area		5,468	5,468	5,468	5,468	
	Waste <sup>8</sup>	t	830	607	297	655	
	thereof: Recovery	t	829	601	297	655	
	Landfilling	t	1	6	0	0	
10 Hangar 5							
<b>-</b>	Electricity	MWh	2,987	2,397	2,564	3,220	
	District-heating	MWh	9,323	9,671	9,137	10,875	
4	Water		8,696	5,767	7,074	11,851	
	Effective area		30,945	30,945	30,945	30,945	
	Built-up area		31,640	31,640	31,640	31,640	
	Waste <sup>8</sup>	t	153	267	124	267	
	thereof: Recovery		110	240	97	240	
	Landfilling		42	26	27	26	

Buildings in FRA <sup>6</sup>		Unit	2022	2021	2020	2019	+/- PY in %
11 Hangar 6							
	Electricity	MWh	3,472	3,458	3,415	4,389	(
	District-heating	MWh	9,504	9,859	9,314	11,086	-2
	Water	m <sup>3</sup>	4,640	3,202	1,550	231	45
	Effective area	m²	28,302	28,302	28,302	28,302	(
	Built-up area	m²	29,406	29,406	29,406	29,406	(
	Waste <sup>8</sup>	t	124	92	97	122	3!
	thereof: Recovery	t	124	91	97	118	30
	Landfilling	t	0	1	0	4	-100
12 Further maintenance buildings/areas △							
and the second sec	Electricity	MWh	11,676	12,696	11,889	14,735	-8
	District-heating	MWh	28,194	30,506	27,839	32,543	-8
	Water	m³	13,700	3,202	1,550	231	328
	Effective area	m²	61,717	61,717	61,717	61,717	(
	Built-up area	m²	43,202	43,202	43,202	43,202	(
	Waste <sup>8</sup>	t	761	578	795	1,100	32
	thereof: Recovery	t	681	472	518	703	44
	Landfilling	t	133	106	276	396	20
13 Terminal							
	Electricity	MWh	2,265	1,530	1,508	3,013	48
a salar a sa	District-heating	MWh	2,731	2,731	2,731	2,731	(
	Effective area	m²	27,060	27,060	27,060	27,060	(
	Waste ** 8	t	13	5		-	160
	thereof: Recovery	t	13	5	-	-	160
	Landfilling	t	0	0	-	-	
l4 Lounges and First Class Terminal							
1	Electricity	MWh	2,265	1,530	1,508	3,013	48
$\odot$	Electricity per passenger	KWh	0.87	1.34	1.54	0.75	-38
	Effective area	m²	5,237	5,237	5,237	5,237	(
	Built-up area		5,237	5,237	5,237	5,237	(

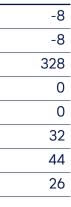
\*\* Previous year's figures not available

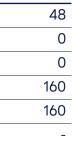
Corrected due to new data basis

△ This includes buildings that Lufthansa Airlines makes use of to varying degrees.

The complete consumption data of these buildings are reported without taking into account Lufthansa Airlines' share.

More information on data delimitation and calculation methodology as well as footnote resolution on page 35.







# **Data Delimitation and Calculation Methodology**

## Data Delimitation

The reporting on transport performance, kerosene consumption and emissions from flight operations for the years 2019 to 2022 is based on the following data definition – unless stated otherwise:



• [1] Includes all scheduled and charter flights operated by Lufthansa Airlines (excluding Air Dolomiti) and Lufthansa CityLine. Excluded from this are services provided by third parties as their performance cannot be influenced. Cross-location data relate to the hubs Frankfurt am Main and Munich as well as the respective flight operations of Lufthansa Airlines and Lufthansa CityLine.

## Calculation Methodology



#### [2] Absolute kerosene consumption

Kerosene consumption is calculated on the basis of actual flight operations, i.e. taking into account the actual utilisation and routing according to the gate-to-gate principle. This means that all flight phases are covered – from taxiing on the ground to detours and holding patterns in the air.

# **C**CO<sub>2</sub>

#### [3] Absolute emissions

The calculation of the absolute emissions of air transport is based on the actual transportation performance and thus on the real utilisation as well as the actual consumption of kerosene in the

reporting year. The transportation performance is measured in tonne-kilometres, i.e. the payload transported over a distance. The standard of an average of 100 kilograms is used for passengers and their baggage, and for freight the weight measured. Each aircraft-engine combination in the fleet is considered separately and calculated using programs from the respective engine and aircraft manufacturers. The programs take into account the annual average flight profile of each subfleet. This makes it possible to determine emissions based on altitude, distance, thrust, and load. This is particularly necessary for nitrogen oxides (NOX), carbon monoxide (CO), and unburned hydrocarbons (UHC). However, CO<sub>2</sub> emissions do not require a special aircraft-specific calculation, as they are calculated based on the density of the burned kerosene. Burning one tonne of kerosene produces around 3.15 tonnes of  $CO_2$ , depending on the actual density.



#### [4] Specific consumption and emissions

The calculation of specific consumption and emissions puts the absolute values in relation to the transport performance. For example, the indicator litres per 100 passenger kilometres (I/100 pkm) is calculated based on the actual utilisation and actual consumption of kerosene. The distances used refer to great circle distances. In combined transport (freight and passenger transport on one aircraft), the passenger- or cargo-specific values of fuel consumption are based on their share of the total payload. Since 2013, the DIN EN 16258 standard has provided guidelines for the standardised calculation of greenhouse gas emissions for transport processes. Lufthansa Group adheres to this guideline regarding the allocation of payload. A unified, internationally harmonised, and accepted method would be welcomed by Lufthansa Group.



kg = kilogram

#### [5] Fuel (vehicles)

tkm = tonne kilometre

The data on fuel consumption of the service vehicles is obtained from the actual amount of fuel filled up, which is documented through fuel card billing.

Kwh = kilowatt-hour

g = gram

## Ъ.

#### [6] Electricity, heat and water consumption

The buildings of Lufthansa Airlines and Lufthansa CityLine are all rented from the airport operator companies in Munich and Frankfurt am Main. These companies transmit the consumption data annually. In some cases, consumption data is not shown separately due to the lack of metres and are therefore not included in this report.



#### [7] Material input

The paper consumption is requested from the supplier and corresponds to the amount of copying paper used in the reporting year.



#### [8] Waste

The waste data and key figures are compiled annually from the transfer notes and invoices from the waste disposal companies and then evaluated.

## Accuracy

For reasons of clarity, the figures in the tables and graphs have been rounded. The changes compared to the previous year, however, refer to the exact values in each case. For this reason, a table entry, although appearing unchanged compared to the previous year, may still show a relative change. Due to rounding of proportional percentage figures, it may also happen that their addition, compared to the addition of non-rounded percentage figures, leads to differing results. For example, proportional percentage figures cannot be added up to 100 percent due to rounding, even though this would be logically expected.

% = percentage

Updated Environmental Statement 2023 Lufthansa Airlines | Lufthansa CityLine

Coupon = flight

m<sup>3</sup> = cubic meter

m² = square metre l = litre

# Validation



# CERTIFICATE

Lufthansa Airlines

#### Sites

Lufthansa Airlines München, Südallee 15, 85356 München-Flughafen Lufthansa CityLine GmbH, Südallee 15, 85356 München-Flughafen Lufthansa CityLine GmbH, Cargo City Süd, Geb. 459, 60549 Frankfurt am Main and Lufthansa Airlines Frankfurt am Main, Airportring Mitte, Tor 21, Geb. 302, 60549 Frankfurt am Main

Registration-No.: DE-155-00158

Date of first registration 13th January 2000

This certificate is valid until 31<sup>th</sup> May 2024

This organisation has established an environmental management system according to EU-Regulation Nr. 1221/2009 and EN ISO 14001:2015 (section 4 to 10) to promote the continual improvement of environmental performance, publishes an environmental statement, has the environmental management system verified and the environmental statement validated by a verifier, is registered under EMAS (<u>www.emas-register.de</u>) and therefore is enti-tled to use the EMAS-Logo.



Munich, 20th November 2023 low M

Dr. Manfred Gößl Chief Executive Officer



#### **INTECHNICA**

#### Erklärung des Umweltgutachters

#### zu den Begutachtungs- und Validierungstätigkeiten nach Anhang VII der Verordnung (EG) Nr. 1221/2009 sowie nach Änderungs-VO 2017/1505 und 2018/2026

Der Unterzeichnende, Dr.-Ing. Reiner Beer EMAS-Umweltgutachter mit der Registrierungsnummer DE-V-0007, akkreditiert oder zugelassen für den Bereich 51.10 (NACE-Code Rev. 2), bestätigt, begutachtet zu haben, ob die gesamte Organisation/ wie in der Umwelterklärung der Organisation

#### Lufthansa Airlines:

#### Standort 1:

Lufthansa Airlines München, Südallee 15, 85356 München-Flughafen

#### Standort 2:

Lufthansa Airlines Frankfurt am Main, Airportring Mitte, Tor 21. Geb. 302, 60549 Frankfurt am Main

Standort 3:

Lufthansa Cityline GmbH, Südallee 15, 85356 München-Flughafen

Standort 4:

#### Lufthansa Cityline GmbH, Cargo City Süd, Geb. 520 (Halle 7), 60549 Frankfurt am Main

angegeben, alle Anforderungen der Verordnung (EG) Nr. 1221/2009 des Europäischen Parlaments und des Rates vom 25.11.2009 und Änderungs-VO 2017/1505 vom 28.08.2017 und 2018/2026 vom 19.12.2018 über die freiwillige Teilnahme von Organisationen an einem Gemeinschaftssystem für Umweltmanagement und Umweltbetriebsprüfung (EMAS) erfüllt.

Mit der Unterzeichnung dieser Erklärung wird bestätigt, dass die Begutachtung und Validierung in voller Übereinstimmung mit den Anforderungender Verordnung (EG) Nr. 1221/2009 und Änderungs-VO 2017/1505 und 2018/2026 durchgeführt wurden,

das Ergebnis der Begutachtung und Validierung bestätigt, dass keine Belege für die Nichteinhaltung der geltenden Umweltvorschriften vorliegen,

die Daten und Angaben der aktualisierten Umwelterklärung der Organisation / des Standortes ein verlässliches, glaubhaftes und wahrheitsgetreues Bild sämtlicher Tätigkeiten der Organisation/ des Standortes innerhalb des in der Umwelterklärung angegebenen Bereichs geben.

Diese Erklärung kann nicht mit einer EMAS-Registrierung gleichgesetzt werden. Die EMAS-Registrierung kann nur durch eine zuständige Stelle gemäß der Verordnung (EG) Nr. 1221/2009 erfolgen. Diese Erklärung darf nicht als eigenständige Grundlage für die Unterrichtung der Öffentlichkeit verwendet werden.

Nürnberg, 19.10.2023

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Dr.-Ing. Reiner Beer Umweltgutachter





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