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# Environmental statement 2024

AeroGround Flughafen München GmbH

Living ideas - Connecting lives

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# /Foreword

Dear Sir or Madam, dear readers,

As a subsidiary of Munich Airport GmbH, we are aware that economic activities always involve interventions in nature and the environment. That is why we consistently rely on comprehensive environmental protection concepts to minimize environmental pollution and to conserve resources. Our commitment to environmental protection and sustainability is reflected, among others, in our environmental policy.

In the annual environmental statement, we summarize what we worked on during the reporting year and what successes we had in achieving the group-wide environmental goal "NetZero". It is our objective that the operation of the Munich Airport does no longer release any CO<sub>2</sub> into the atmosphere by 2035 at the latest. To this end, the airport is implementing measures in the areas of energy supply, airport technical facilities, buildings and the vehicle fleet.

In 2023, we reached important milestones: For the first time, AeroGround successfully received a certification under the "Eco-Management and Audit Scheme" (EMAS) for exemplary environmental management. The Federal Ministry for Digital and Transport (BMDV) issued a funding notice for the purchase of electric vehicles on the apron. The procurement of electrically powered passenger buses, including the construction work for the necessary charging infrastructure, also accompanied us throughout the year.

Our environmental management system complies with all requirements of the environmental standards DIN EN ISO 14001:2015 and EMAS VO [EG1221/2009], hereinafter referred to as ISO 14001/EMAS. This is how we systematically document and communicate the continuous development of the environmental management.

The management and all employees of AeroGround Flughafen München GmbH are committed to carry out their activities in accordance with the descriptions of the environmental management manual and the environmental management system.



A handwritten signature in blue ink, consisting of two distinct parts: "Ehrnstraßer" and "Konradi".

Helmut Ehrnstraßer and David Konradi  
Managing Directors AeroGround Flughafen München GmbH

# /Brief portrait of AeroGround

AeroGround was created in 2011 through the merger of the ground handling divisions of FMG and mucground Services and it represents a joint venture with Munich Airport GmbH. As a wholly owned subsidiary of Munich Airport GmbH, it owns the unlimited handling license of FMG.



As a quality and full-service provider, AeroGround Flughafen München GmbH offers its customers an individual service portfolio. Safety, reliability and professional, integrated processes characterize AeroGround.

It offers landward services related to aircraft and baggage handling at Munich Airport [MUC]. About 2,400 experienced employees handle over 100 customers in the aviation industry every year.

# Our Services



## Aircraft and baggage handling

Aircraft handling [passenger and cargo flights]

Loading and unloading of aircrafts

Baggage handling and sorting

Baggage transport



## Transport services

Air and landside crew and passenger transport

Direct Transfer-Services, Terminal-Shuttle, Bus-Charter

Transport of unaccompanied children (UM)

Cargo transport

Fresh water and toilet service



## Handling of central infrastructure

Stationary ground power supply

Aircraft air conditioning (PCA)

Operation of passenger boarding bridges

Staffing of bulky baggage stations

175.000



aircraft movements

Number

1

in MUC

Market share

61%



relating to aircraft movements

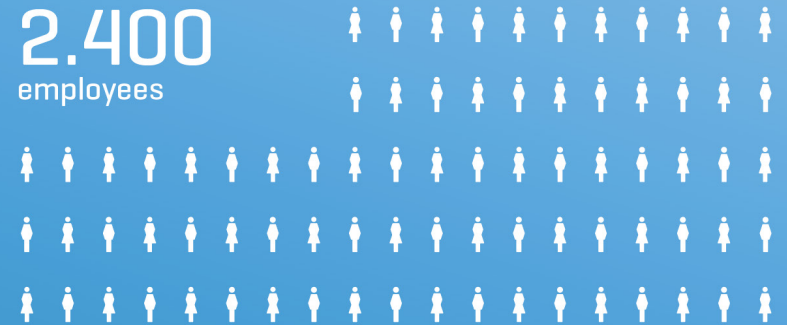
18 million

pieces of baggage



2.400

employees



around

100

customers in the aviation industry



110

average MTOM in tons



26 million

passengers



# /Organization AeroGround

**Managing Director  
Operations, IT & Quality Management**  
David Konradi



**Managing Director  
Sales, HR & Finance**  
Helmut Ehrnstraßer



## Business Divisions



**Vice President  
Ramp Handling (AEF)**  
Christian Fischer



**Vice President  
Baggage Handling (AEG)**  
Sven Ninow



**Executive Vice President  
Transport Services (AET)**  
Tobias Sander



**Executive Vice President  
Sales & Marketing (AEV)**  
Axel Feil



**Vice President  
Human Resources (AEH)**  
Birgit Cusati



**Vice President  
Finance (AEK)**  
Stefanie Scharf

## Service Divisions



**Head of Quality  
Management & KVP (AEXQ)**  
Emam Lotfy



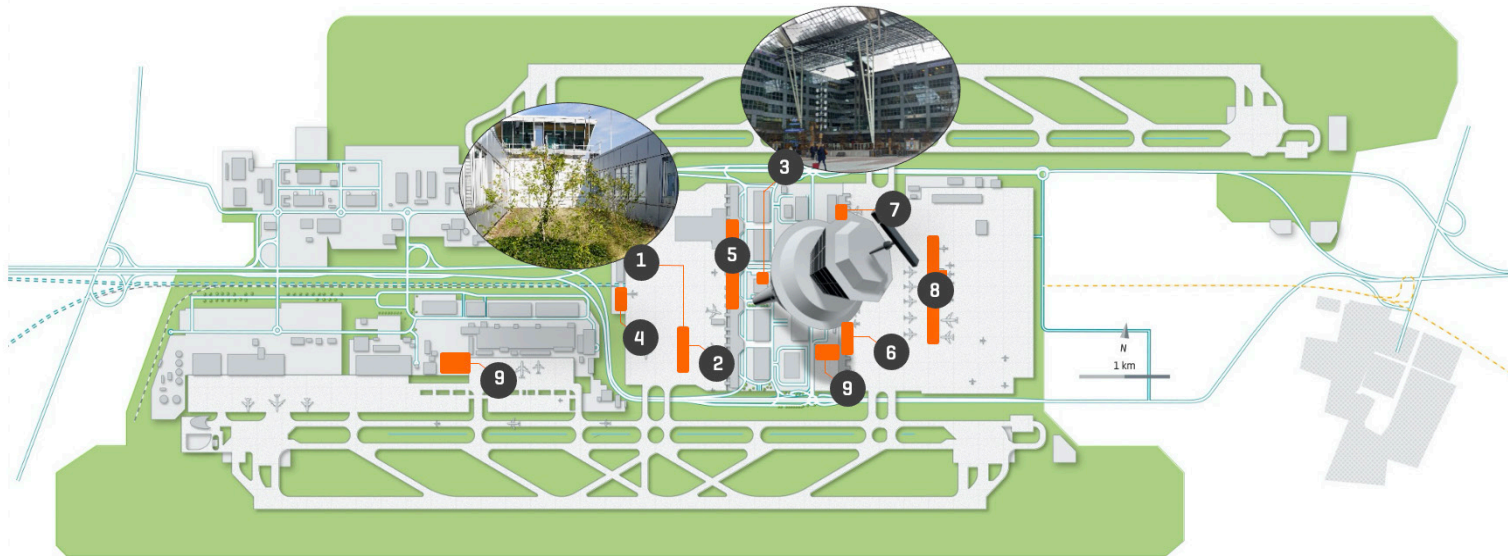
**Head of  
IT-Management (AEXI)**  
Rudolf Donig



**Head of Innovation Management  
& Operational Analytics (AEXX)**  
Dr.-Ing. Jan Evler

# /Buildings and premises

AeroGround uses the following operating sites [rented premises and areas]:



1. Apron station 2, administration: Office space for management with meeting rooms on apron at T1 including scheduling transport service
2. Apron station 2, equipment hall: Hall for storage, charging and cleaning of equipment/vehicles with rooms for supply services and washing facility
3. MAC administrative rooms: 2 office spaces and 1 meeting room in the public area
4. Apron station 4: Rooms and areas for passenger transport
5. T1 operating site: Rooms and areas for aircraft and baggage handling including scheduling and cargo transport
6. T2 office: Rooms and areas for baggage handling including scheduling
7. T2 pier facility: rooms and areas for aircraft handling including scheduling
8. SAT operating site: Rooms and areas for aircraft and baggage handling including scheduling
9. Container warehouse with office containers: high racks and roller decks in the freight area and roller tracks in the commuter yard

In addition, various apron areas in T1, T2 and at the SAT are available for handling equipment/dollies.



# /Environmental policy

As a subsidiary of Flughafen München GmbH, we are a responsible ground handling service provider and feel particularly committed to environmental protection and sustainability. We therefore consistently focus our business activities on avoiding environmental pollution wherever possible and conserving resources.

In addition, the FMG Group's CO<sub>2</sub>-Charter, which also applies to AeroGround, contains the guidelines for implementing the group-wide CO<sub>2</sub> strategy up to 2030.

The adapted CO<sub>2</sub> strategy "Net Zero by 2035" pursues the goal of net zero emissions by 2035. The aim is to reduce the airport's CO<sub>2</sub> emissions by at least 90 percent and actively and permanently remove the remaining ten percent from the atmosphere.

## Our commitments:

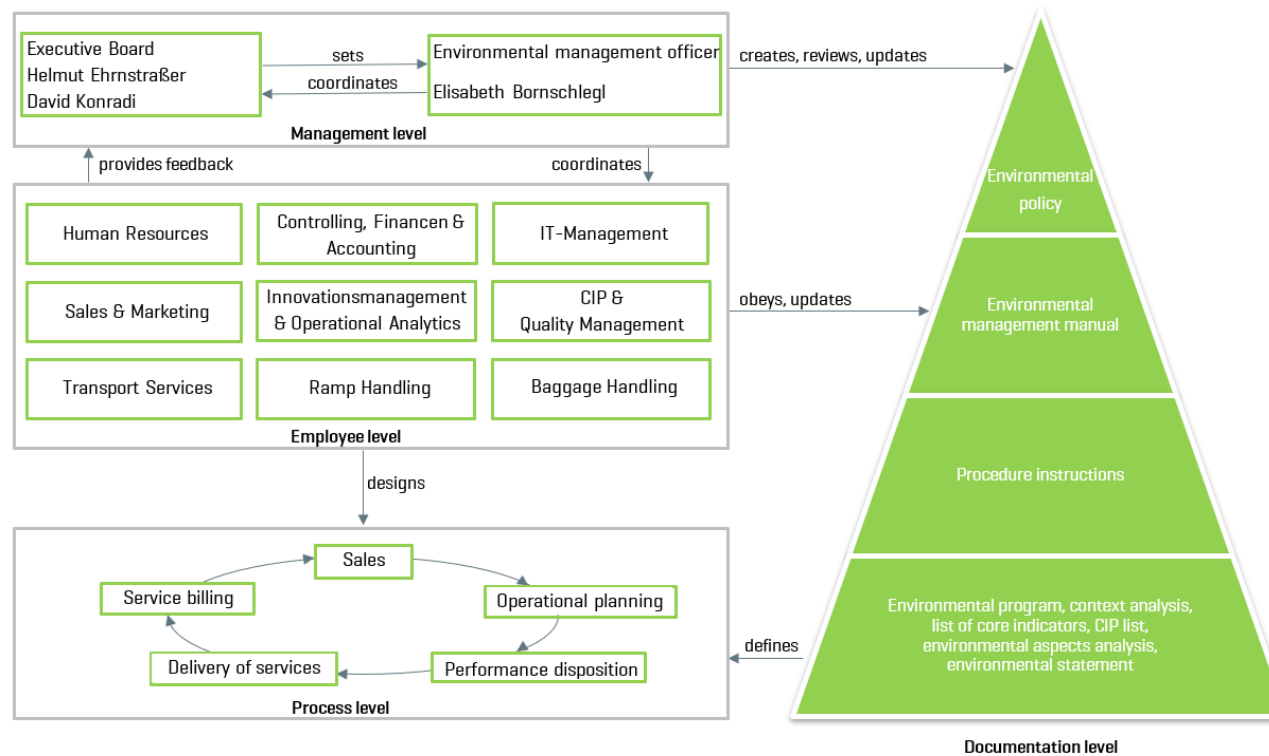
- We comply with and promote the principles of environmental protection, including the economical use of fuel, energy, water and paper, and the avoidance of waste and wastefulness.
- The following criteria contribute to the reduction of emissions such as noise or exhaust gases
  - Procurement of vehicles and operating resources
  - Energy efficiency
  - Life-Cycle analysis
- We comply with binding obligations and environmental law.
- Continuous measurement and improvement of environmental performance to manage environmental impacts
  - Noise
  - Climate protection
  - Energy efficiency
- Continuous development and improvement of environmental management as well as certification in accordance with EMAS and ISO 14001.

**NET ZERO**  
/ **2035**

# /Environmental management system

AeroGround operates, documents, implements and maintains an environmental management system in accordance with the EMAS regulation to achieve the desired objectives, including the improvement of environmental performance. Various employees of the functional areas are involved in this process.

The system objective is to embed environmentally relevant processes in the company and to continuously improve operational environmental protection. This requires the assignment of responsibilities and tasks, as well as the definition of processes and instruments to support the environmental management system.



# /Selected 2023 highlights

## First EMAS certification for exemplary environmental management

AeroGround, a subsidiary of Munich Airport GmbH (FMG) for ground handling services, has successfully received the certification under the “Eco-Management and Audit Scheme” [EMAS] for its exemplary environmental management. This success underlines the commitment of AeroGround and the entire FMG Group to environmental protection, resource conservation and sustainable action.

The prerequisite for the EMAS certification is the establishment of an environmental management system in accordance with ISO 14001 with an additional focus on measurable improvements, internal and external transparency and legal certainty. AeroGround has set itself the objective of avoiding environmental pollution and conserving resources. For this purpose, a comprehensive analysis was carried out and measures were developed.

For example, the conversion of freight wagons from 2023 onwards will result in annual savings of around 3.3 tonnes of film, because the wrapping of cargo through the container structure will no longer be necessary. Thanks in part to the funding from the Federal Ministry for Digital and Transport for electric buses and charging infrastructure, the first electric buses are scheduled to go into operation in January 2024.

The expansion of the bus depot into a modern E-bus depot will also begin next year. In addition, electric ground power devices will be introduced in the course of 2024, which will also be subsidized by the government. Another measure: From January 2024, AeroGround will purchase sustainably produced electricity for its entire energy needs.

This recently acquired EMAS certification underlines the airport group’s ambitious “Net Zero” climate strategy.



The certificate was presented by Susanne Kneißl-Heinvetter, Head of the EMAS Registration Office of the Chamber of Industry and Commerce for Munich and Upper Bavaria [center] to Jost Lammers, CEO of Munich Airport GmbH [2nd from left], Helmut Ehrnstrasser, Managing Director of AeroGround Munich Airport GmbH [2nd from right], Emam Lotfy, Head of Quality Management & CIP AeroGround Munich Airport GmbH [left], and to Elisabeth Borschlegl, Environmental Management Officer of AeroGround Munich Airport GmbH.

## AeroGround receives a funding notice of around EUR 225,000

In just a few years, the entire airport fleet on the apron at the Munich Airport will be operating in a pollution-free and climate-friendly manner. As early as 2024, half of the vehicles are to be electrically powered. The Federal Ministry for Digital and Transport (BMDV) supports this sustainable modernization of the apron traffic at Munich Airport.

"Munich Airport has big targets," explained Daniela Kluckert at the handover at Munich Airport: "By 2030, the entire fleet should be emission-free. One third has already been converted. Another 33 electric vehicles and 17 charging stations are now being added. We have been supporting and accompanying this commitment to climate-friendly mobility on the aprons of airports for many years. With this change, another step has

been taken towards sustainable airport operations and a clean future for the aviation industry."

The funding is intended to offset part of the additional costs involved in purchasing electric vehicles. For apron operations with many short distances and low speeds, the electric drive is considered a particularly efficient solution: "We reduce air pollutants, lower our energy consumption and avoid climate-damaging emissions. The funding is a great addition. Last year, Munich Airport received a grant of EUR 24 million from the Federal Ministry of Transport, which will be invested in the purchase of up to 72 electrically powered passenger buses including the necessary landing infrastructure," explained airport boss Jost Lammers.

## Further funding notice for electric ground power units

In October 2023, AeroGround received a further funding commitment from the federal government in the amount of EUR 1.5 million. The EU-wide tender, which was carried out in parallel with the funding appli-

cation, was successfully completed, so that the order for 20 battery-electric ground power units could be placed in November. The delivery of the first units is expected in September 2024.



Daniela Kluckert, Parliamentary State Secretary and BMDV Commissioner for Charging Infrastructure, presented a funding notice amounting to around EUR 225.000 to Jost Lammers (left), CEO of Munich Airport GmbH (FMG) and Helmut Ehrnstraßer, Managing Director of AeroGround Munich Airport GmbH.

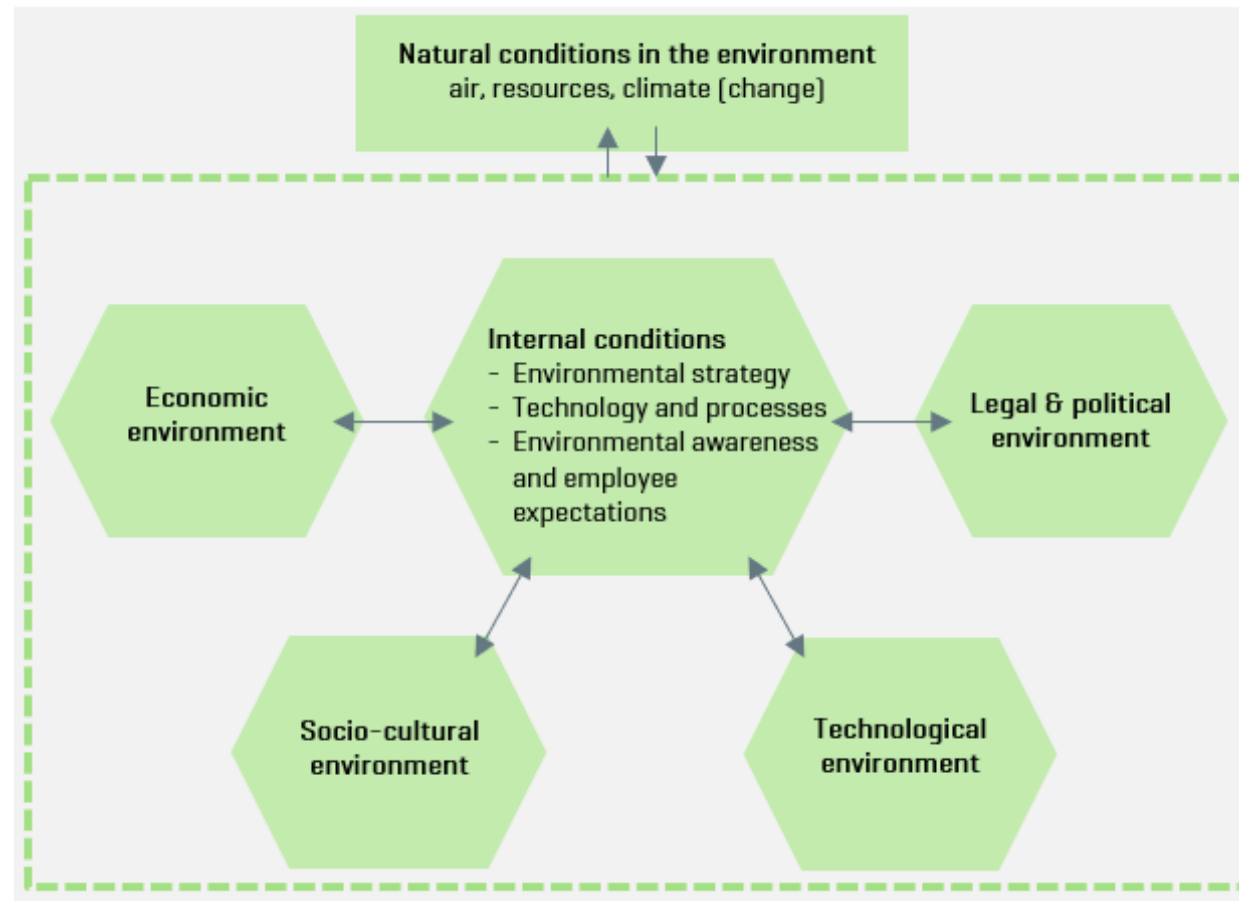
# /Context of the organization

The organizational context of AeroGround was analyzed as part of the EMAS regulation implementation. The environment of our company, interested parties and the direct and indirect environmental impacts were examined and the resulting opportunities and risks were recorded. Together with the findings from the life cycle assessment of our services, we have developed goals and measures to further improve our environmental performance.

## Environment analysis

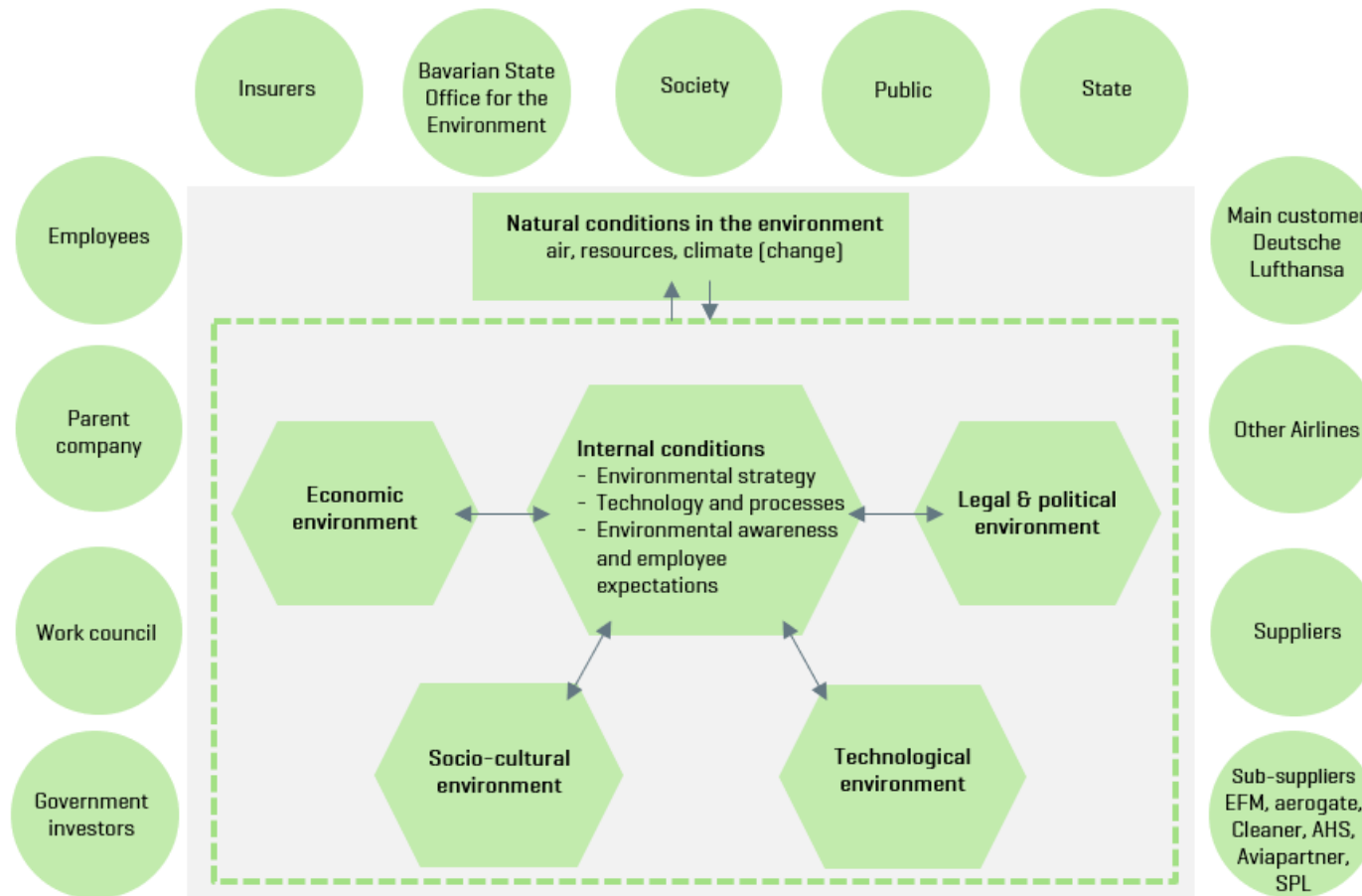
Our strategic direction is influenced by various internal and external topics and issues of varying priority. These also have a significant impact on the objectives of our environmental management system and therefore play an important role in the direction of our environmental management system.

These include, first of all, the environmental conditions (e.g. air, resources, water) at our location, which are influenced by our business activities, but which also influence our actions. In addition, political, legal, technical, social and economic framework conditions are among the external issues that also influence us, our environmental performance and our environmental management system. Internal issues such as the knowledge of our employees and the technologies used in our company are also considered relative to our strategic direction.



## Interested parties

Various internal and external interested parties have expectations and requirements regarding our environmental management system. Examples include society, our government investors, customers and suppliers. We have identified a total of 13 relevant stakeholders for our organization, which emerged from the environmental analysis. We have assessed the importance of the expectations and requirements [e.g. noise protection, compliance with contracts, etc.] for us and our environmental management system and, if highly relevant, we developed measures, e.g. for communication with the respective interested party.



# /Environmental impacts

AeroGround's activities, products and services have an impact on the environment. The environmental aspects that have or may have a significant impact on the environment throughout the life cycle of AeroGround are identified. A distinction is made between direct environmental aspects, i.e. those that can be directly influenced, and indirect environmental aspects, i.e. those that cannot be directly influenced.

For all environmental aspects, the environmental relevance and control potential are determined based on defined criteria. The analysis of the context of AeroGround and the interested parties and the environmental aspects identified therein are included in the environmental aspect assessment.

The environmental aspects are assessed regularly, but at least annually, for changes and potential for change according to the two criteria of importance and potential for influence.

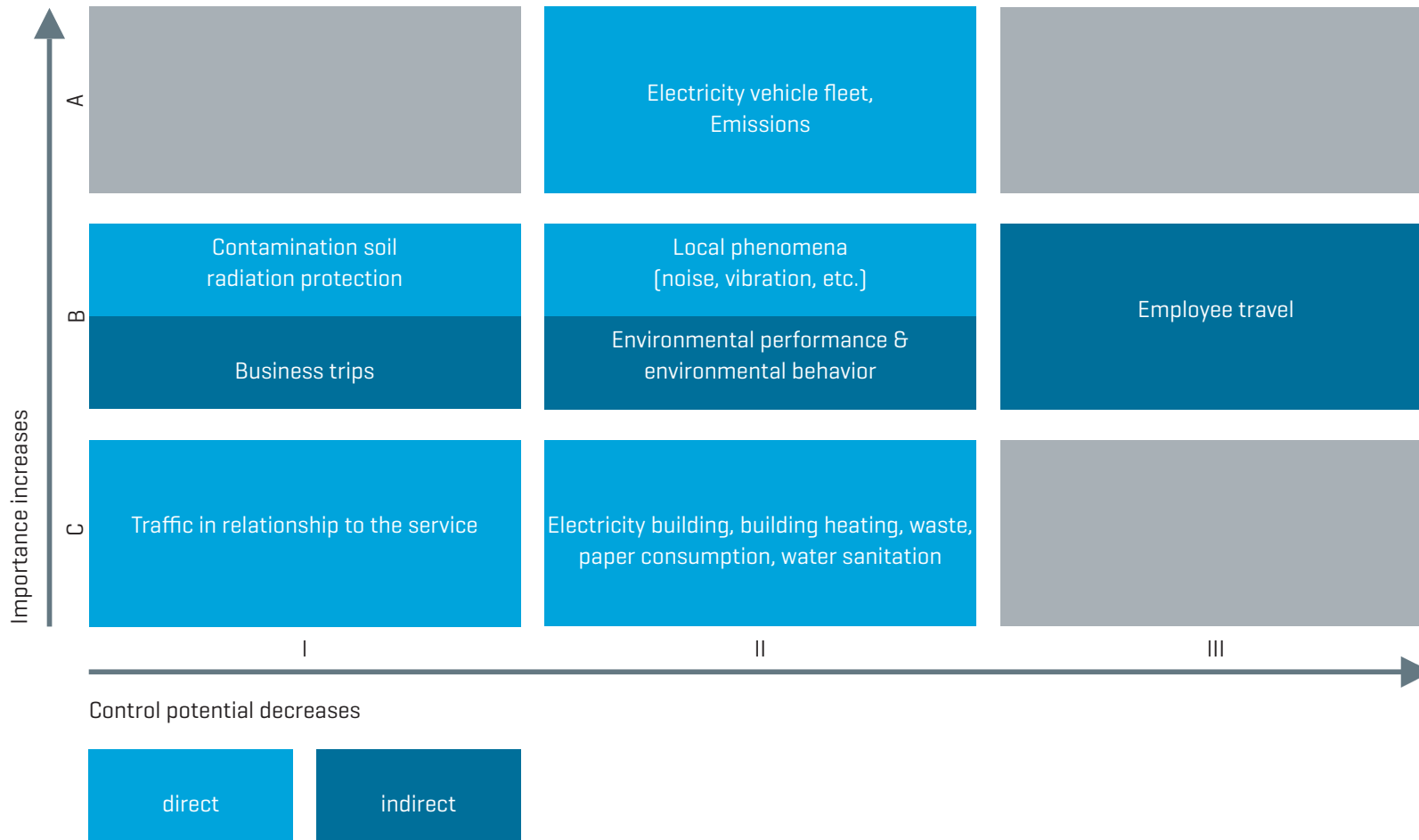
## Environmental relevance assessment scheme

Quantitative significance	Predicted future development	Hazard potential		
		High [A]	Average [B]	Low [C]
High [A]	Increasing [A]	A	A	B
	Stagnating [B]	A	B	B
	Declining [C]	B	B	B
Average [B]	Increasing [A]	A	B	B
	Stagnating [B]	B	C	C
	Declining [C]	B	C	C
Low [C]	Increasing [A]	B	B	B
	Stagnating [B]	B	C	C
	Declining [C]	B	C	C

## Influence assessment scheme

- I In the short term, there is a relatively large potential for growth.
- II The environmental aspect must be managed sustainably, but only in the medium to long term.
- III Control options for this environmental aspect are not available, only very long-term or only depending on the decisions of third parties.

Direct & indirect environmental aspects





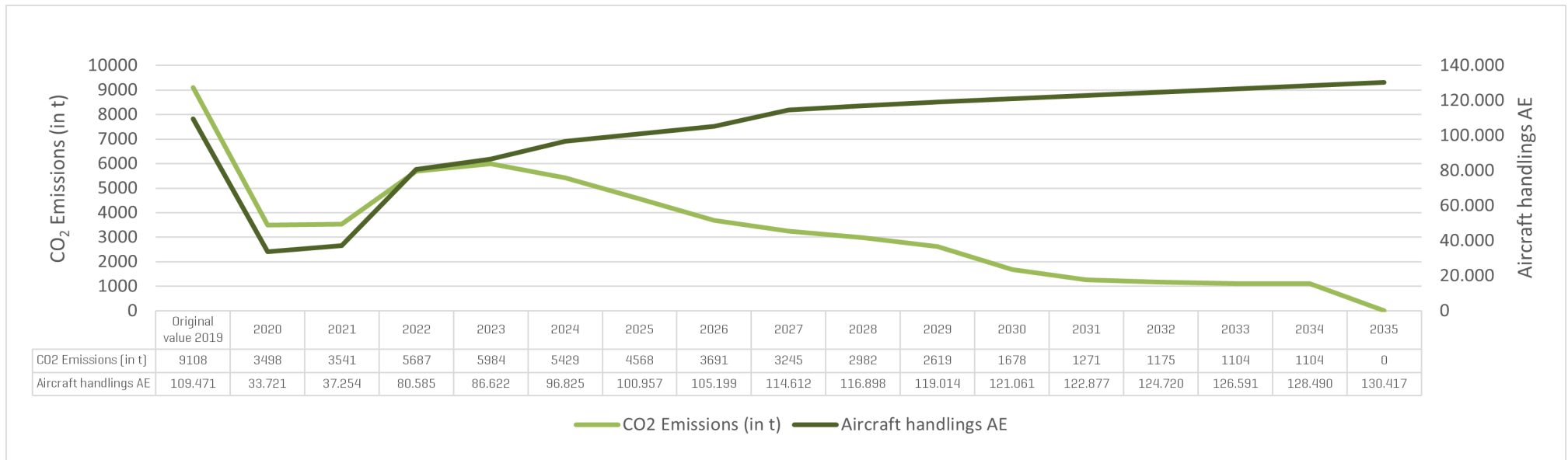
# /Vehicle fleet

AeroGround Flughafen München GmbH is the largest provider of aircraft handling and transport services and also operates the largest vehicle fleet at the Munich Airport. By 2035, the entire vehicle fleet is to be operated in a CO<sub>2</sub>-neutral manner. AeroGround therefore relies on energy sources that are consistent with environmental protection and sustainability goals. Of the approximately 700 vehicles, around 340 are electrically powered. Most of them are special vehicles such as baggage tractors, passenger stairs, conveyor belt vehicles and lifting platforms. As developments progress, the industry will

provide alternative drives for all device groups, so that a 100% conversion will be possible. When purchasing new equipment, attention is not only paid to the drive concept, but also to the sustainability, availability, life cycle costs and [battery] recycling concepts of the manufacturers.

Overall, the CO<sub>2</sub> savings potential in the area of fuel consumption is around 9.000 tonnes of CO<sub>2</sub>.

## CO<sub>2</sub> reduction path until 2035 [conversion of the fleet to electric drives]:



## Vehicle fleet of AeroGround 2023

AeroGround's fleet currently consists of 686 vehicles. A large part are special vehicles for aircraft handling. 340 of the vehicles are electrical vehicles [49.6%]. The objective is to completely electrify the fleet by 2035.

Vehicle fleet 2023	GASOLINE	DIESEL	ELECTRICAL	HYBRID	Total
Passenger transport					
Solo busses		14			14
Articulated busses		28			28
Mini busses		14	2		16
Ramp and Baggage Handling					
Passenger stairs large		20	65		85
Tractor		77			77
Highloader		51	23		74
Conveyor belt loaders			81		81
Hybrid baggage				41	41
E-tugs baggage			78		78
GPU		24			24
Container transporter		22			22

Vehicle fleet 2023	GASOLINE	DIESEL	ELECTRICAL	HYBRID	Total
Cargo tractor		27			27
Potabel water / Lavatory service vehicle		12			12
Air starter unit		6			6
Cars and others					
Cars and series vehicles	31	19	11		61
Others		1	39		40
<b>Total:</b>	<b>31</b>	<b>315</b>	<b>299</b>	<b>41</b>	<b>686</b>

\*As of Dec. 31<sup>st</sup> of the year

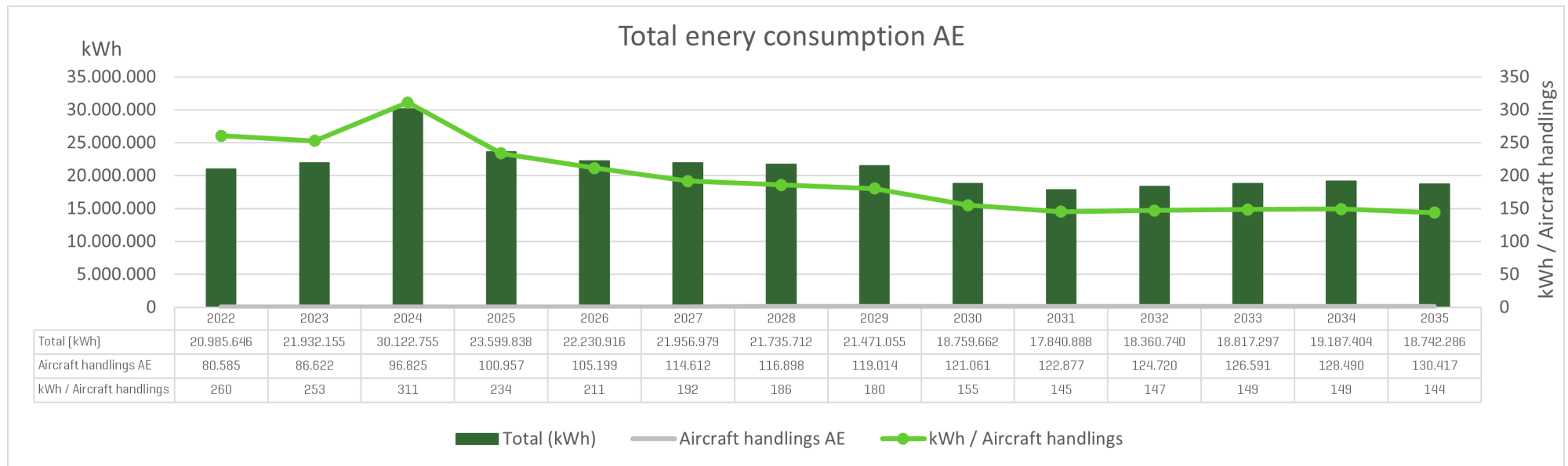
## Main energy consumers

Main causer CO <sub>2</sub> emission equipment type	Diesel consumption [l] Equipment group total 2023	CO <sub>2</sub> - emission [t CO <sub>2</sub> ] Equipment group total 2023
Articulated busses	474.597	1.248
Tractor diesel	363.221	955
Cargo tractor	270.222	711
GPU	192.328	506
Solo busses	191.482	504
Hybrid internal	177.483	467
Container loader transporter 3.5 t	80.188	211
Container transporter	70.605	186
Series vehicles [cars]	62.100	163
Highloader 7 t	60.995	160
Mini busses	52.818	139
Lavatory service vehicle	41.314	109
Potable water service vehicle	32.004	84
Highloader 14 - 35 t	13.410	35
Passenger staris large	10.671	28



Main causer CO <sub>2</sub> emission equipment type	Diesel consumption [l] Equipment group total 2023	CO <sub>2</sub> - emission [t CO <sub>2</sub> ] Equipment group total 2023
Air starter unit	7.304	19
Highloader 3.5 t	2.555	7
Others (forklifts/de-icing trailers)	2.381	6
<b>Total</b>	<b>2.105.678</b>	<b>5.538</b>










## Energy use / Aircraft handlings







More efficient electric drives reduce energy consumption/aircraft handling. At the same time, emissions, operating costs and environmental pollution, e.g. from used oil, are reduced.









# /Environmental objectives and measures




Environmental objective	Measure	Note	Start	End	Status
EMAS and ISO 14001 certification	Development of the environmental management system		2022	Dec. 2023	
	Re-certification and further development of the environmental management system		2024	Continuously	
Improved cooperation with customers and suppliers through the perception of environmental awareness	Letter on UMS and publication of Code of Conduct		2022	April 2023	
	Labeling and promotion of electrically operated handling equipment		2023	Annually	
	Promoting the UMS on the website, LinkedIn, etc.		2022	Dec. 2023	
	Auditing suppliers' environmental performance		2022	Continuously	
	Participation in cooperation for environmental protection		2024	Continuously	
More efficient use of resources	Installation of electricity meters in 2 ground handling devices per device type to create transparency		2022	June 2023	
	Chlorine measuring devices retrofit in potable water service vehicles	Delay due to IT update	2023	June 2023	
	Checking and, if necessary, adjusting the engine shutdown device	Delay due to IT update	2023	Dec. 2023	

Environmental objective	Measure	Note	Start	End	Status
More efficient use of resources	Establish web-based workflows/processes to reduce paper consumption	Area-wide solution for digital order cards in progress	2022	Dec. 2023	
	Renew car wash	For a better use and a reduction of water and cleaning agents	2023	April 2024	
Reduction of film waste from freight vehicles by approx. 95%	Changeover of 100 freight wagons with the addition of a container body	2023 savings: 3290 kg of foil	2022	March 2023	
Promote company-wide environmental awareness among employees	Environmental training		2023	Annually	
	Environmental promotion AE Hub		2022	Continuously	
	Promotion Job bike leasing		2023	April 2023	
	49€-ticket promotion		2024	Dec. 2024	
Reduction of the bus fleet CO <sub>2</sub> emissions	Commissioning of the first 10 electric busses	Einsparungen 2023: 123.954 l Diesel 326 t CO <sub>2</sub> / a	2022	Dec. 2023	
	Purchase of green electricity for the total consumption of the bus fleet	Purchase of green electricity for the total consumption of AeroGround	2023	Dec. 2023	

Environmental objective	Measure	Note	Start	End	Status
Reduction of the bus fleet CO <sub>2</sub> emissions	Creation of the necessary charging infrastructure	Conversion of E-bus depot started	2023	June 2025	
	Conversion of the bus fleet of 49 buses to electromobility	Compared to 2019: 797,718 l diesel 2098 t CO <sub>2</sub> /annually	2022	June 2025	
Reduction of the ground power units CO <sub>2</sub> emissions	Commissioning of the first 20 electric ground power units	Delay due to insolvency of the original supplier	2022	Dec. 2023	
	Electrification of the 40 ground power units	Compared to 2019: 678,326 l diesel 1784 t CO <sub>2</sub> /annually	2022	Dec. 2025	
Reduction of the passenger stairs CO <sub>2</sub> emissions	Completion of the replacement of the diesel passenger stairs with 30 electric passenger stairs	Savings in 2023: 23,574 l diesel 62 t CO <sub>2</sub> /annually	2022	June 2024	
Reduction of the tractor CO <sub>2</sub> emissions	Completion of the replacement of hybrid tractors with 59 electric tractors	Savings in 2023: 257,414 l diesel 677 t CO <sub>2</sub> /annually	June 2024	Dec. 2023	
Reduction of the highloader CO <sub>2</sub> emissions	Replacement of diesel highloaders with 8 electric highloaders	Savings in 2023: 24,559 l diesel 65 t CO <sub>2</sub> /annually	2022	Dec. 2023	



Environmental objective	Measure	Note	Start	End	Status
Reduction of the car fleet CO <sub>2</sub> emissions	Start of electrification of the car fleet with the first 10 electric vehicles	Savings in 2023: 26,616 l diesel 70 t CO <sub>2</sub> /annually	2023	Dec. 2023	
	Electrification of the 77 vehicles in the car fleet		2023	Dec. 2029	
Create transparency about the allocation of electricity meters to consumers	Assign power consumption to components and consumers and create a directory		2022	Sep. 2023	
Create transparency about total water consumption	Estimate water consumption of components without meters and create a directory		2024	Sep. 2024	
CO <sub>2</sub> neutrality	Conversion of the fleet to electromobility or other sustainable drive systems		2022	Dec. 2030	
Strategic planning of CO <sub>2</sub> net zero by 2035	Planning of individual measures to achieve the goal		2024	Dec. 2035	

Icon	Status	Schedule
	Measure stopped	The actual start of the measure is more than 1 year later than the planned start of the measure
	Measure deferred	The actual start of the measure is less than 1 year later than the planned start of the measure
	Measure in progress or completed	The actual start of the measure is equal to the planned start of the measure or earlier

# /Environmental indicators

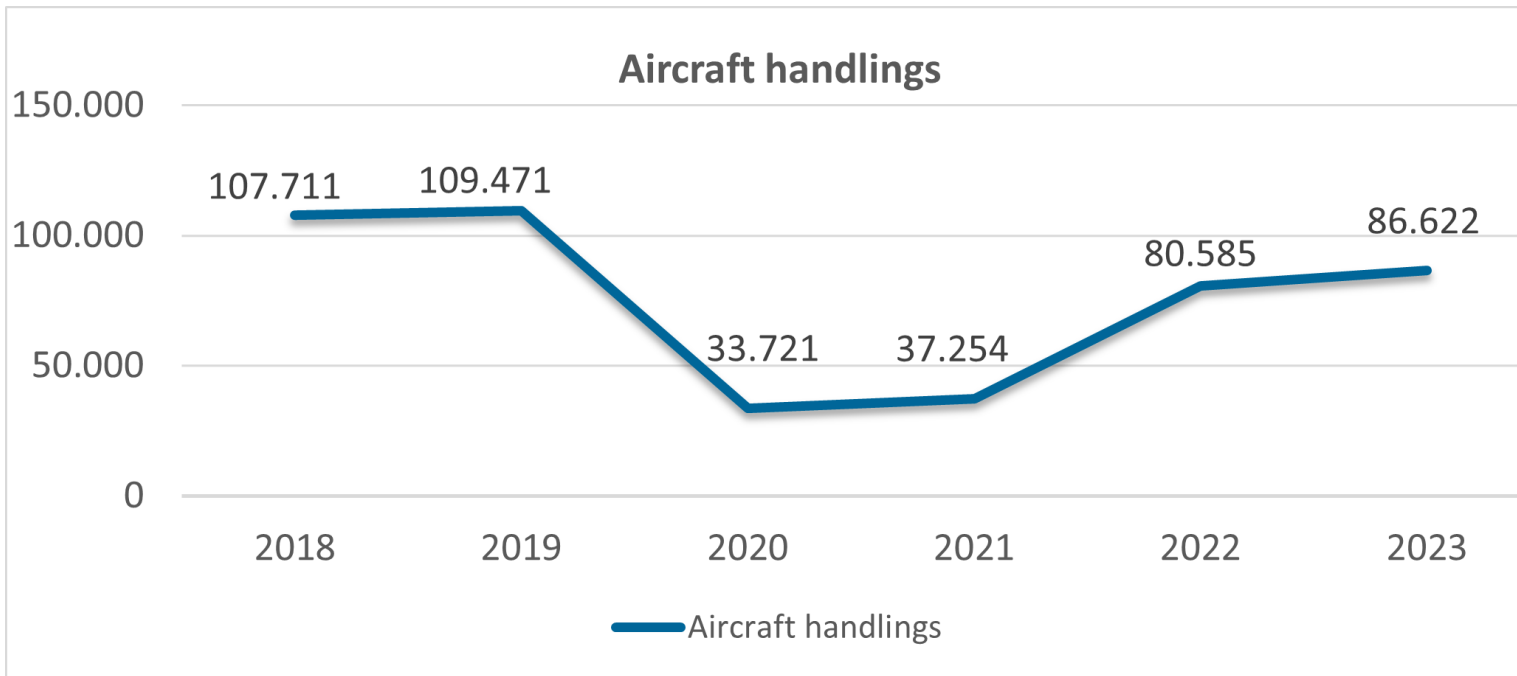
Range	Indicator	Unit	2018	2019	2020	2021	2022	2023
Traffic data	Aircraft handlings	Number	107.711	109.471	33.721	37.254	80.585	86.622
	Passangers	Number millions	30.1	31.1	7.0	8.1	22.3	26.0
	Pieces of baggage Inbound & Outbound	Number millions	20.5	21.6	4.9	5.7	15.9	18.5
	Air freight and airmail	t	331.021	314.088	127.496	145.776	233.018	253.594
Personnel*	Employees	FTE [Employee capacity]	2.017	2.140	2.138	1.860	1.673	1.729

\*As of Dec. 31<sup>st</sup> of the respective year

# /Environmental condition data

## Aircraft handlings

2018	2019	2020	2021	2022	2023
107.711	109.471	33.721	37.254	80.585	86.622



## Consumption data

Range	Indicator	Unit	2018	2019	2020	2021	2022	2023
Energy	Electricity	MWh	1.035	1.009	415	412	682	718
Fuels	Diesel	l	2.857.843	3.059.407	1.238.355	1.262.710	2.016.354	2.105.678
	Gasoline	l	54.051	53.739	21.039	20.874	38.667	41.626
Renewable energies	Share of total consumption	%	7,16	7,83	6,94	6,82	6,88	6,82
Water	Fresh water	m <sup>3</sup>	1.162	952	640	734	n. a.	n. a.
Raw materials, auxiliary materials, operating materials	Paper	sheet	480.000	463.900	282.500	252.500	403.500	100.000
Emissions	CO <sub>2</sub> emissions electricity	t	422	450	172	169	280	306
	CO <sub>2</sub> emissions fuel	t	7.642	8.621	3.306	3.369	5.393	5.635
	CO <sub>2</sub> emissions business trips	t	n. d.	37	20	3	14	43
	CO <sub>2</sub> emissions total	t	8.064	9.108	3.498	3.541	5.687	5.984
	NO <sub>x</sub> emissions*	t	16,49	19,21	6,49	6,04	8,07	7,42
	SO <sub>x</sub> emissions*	kg	40,23	43,65	16,22	14,73	31,02	31,58
	PM <sub>10</sub> emissions*	kg	217,24	213,89	79,49	72,19	88,42	80,54

2023 conversion factors  
without upstream chain

Electricity: 0,42708 kg / kWh  
Diesel: 2,63 kg / l  
Gasoline: 2,32 kg / l

n. a. - not yet available  
n. d. - no data

\*The basis for further pollutant emissions comes from the report by Dr. Bausch (FMG) and was calculated using LASPORT.  
Their percentage share is determined for AeroGround.

### Waste quantities - recyclable materials

Waste at AeroGround is generated as a result of the normal use of offices and common rooms. FMG has collection and individual containers available. The waste generation is accounted for by the FMG parent company, because AeroGround rents the premises from FMG and pays flat-rate fees as ancillary costs. An exact listing is therefore not possible.

During aircraft handling, wood, foil and lashing materials are generated as waste. FMG provides collection containers on the apron, which will then be disposed of by FMG.

FMG publishes the overall waste and recyclable material quantities in its environmental statement.

### Water / waste water

The water consumption is published by the FMG parent company in its environmental statement, as AeroGround rents the premises from FMG and pays flat-rate charges in the ancillary costs.

Exact water consumption is only measured and billed for the washing facility in apron station 2 and the washrooms in T1; there are no water costs for all other rooms. We are also not charged for water in the T2/SAT.

A fixed amount per m<sup>2</sup> is charged for the premises in the MAC. We do not have any exact consumption values since the costs for this

building are allocated to the tenants based on m<sup>2</sup>. Waste water is only generated in the car wash, sanitary facilities and kitchens.

The washing hall is equipped with a recycling system with a gravel filter.

As part of its toilet service, AeroGround transports wastewater from aircrafts to the airport's sewage disposal facility using special tanker trucks. The sewage disposal facility is part of the central infrastructure at the airport and FMG is solely responsible for the operation.

### Heating / air conditioning

The costs for heating/air conditioning are based on a fixed amount, i.e. the costs are also passed on to the tenants based on m<sup>2</sup>. No exact consumption values are therefore available.

### Biodiversity

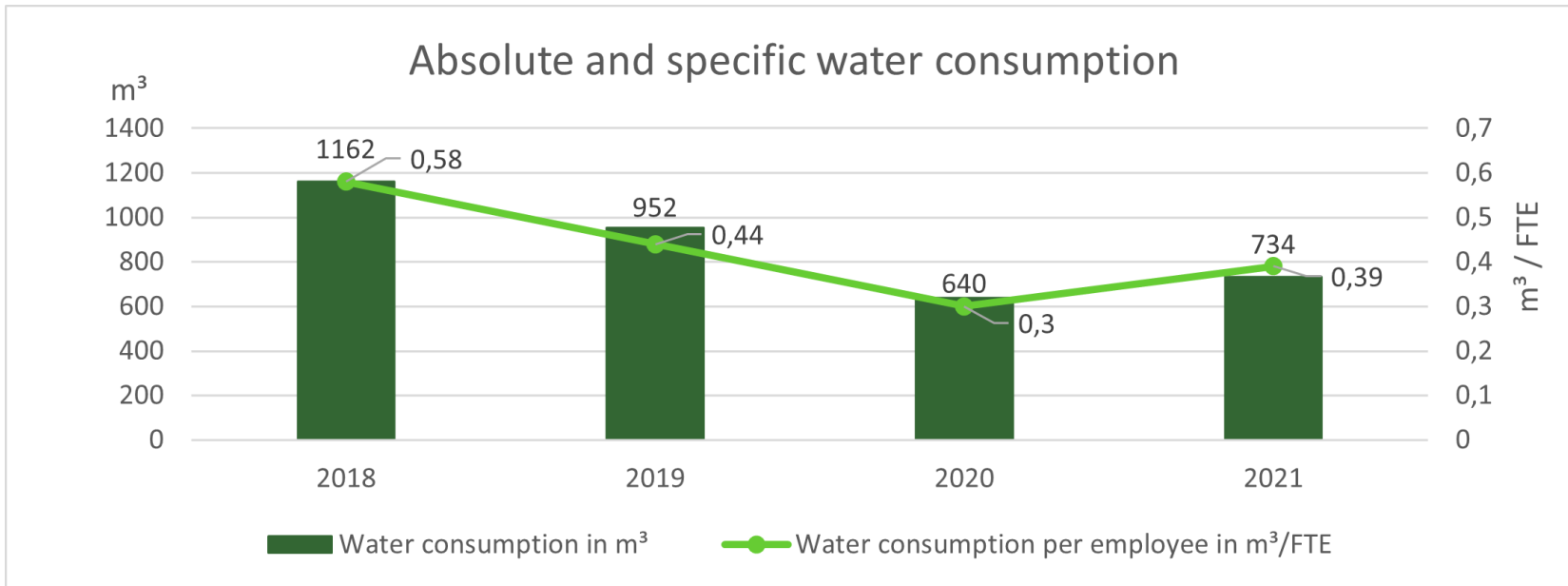
AeroGround leases 100% of the sealed areas and does not own any green spaces. It has no influence on the biodiversity and therefore this environmental aspect is not relevant for AeroGround.

# /Core indicators

## Absolute and specific water consumption

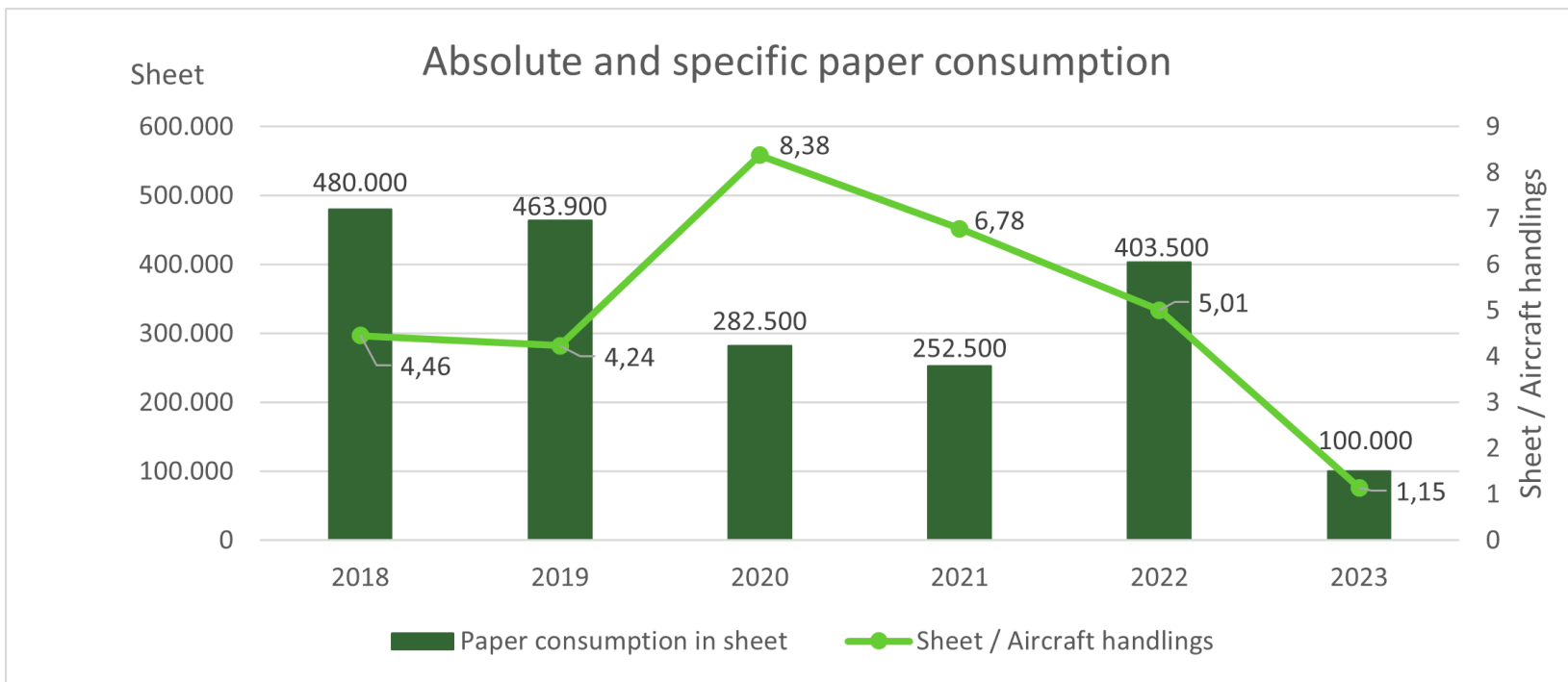
The values for 2022 and 2023 are not yet available from FMG.

Indicator	Unit	2018	2019	2020	2021
Water consumption	m <sup>3</sup>	1162	952	640	734
Employees	FTE	2016,63	2139,74	2137,78	1859,52
Consumption per employee	m <sup>3</sup> / FTE	0,58	0,44	0,30	0,39



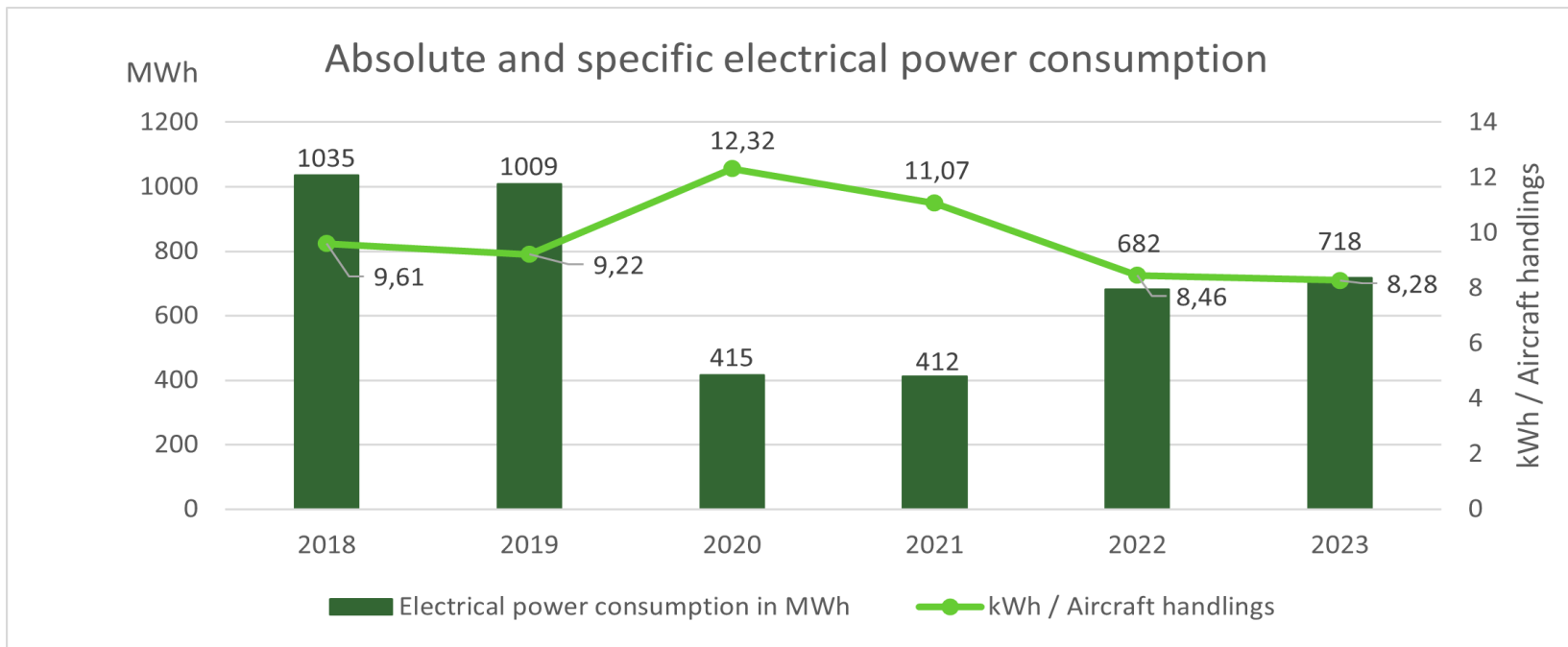
## Absolute and specific paper consumption

Indicator	Unit	2018	2019	2020	2021	2022	2023
Paper consumption	Sheet	480.000	463.900	282.500	252.500	403.500	100.000
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
Consumption per Aircraft handling	Sheet / Aircraft handlings	4,46	4,24	8,38	6,78	5,01	1,15



## Absolute and specific electrical power consumption

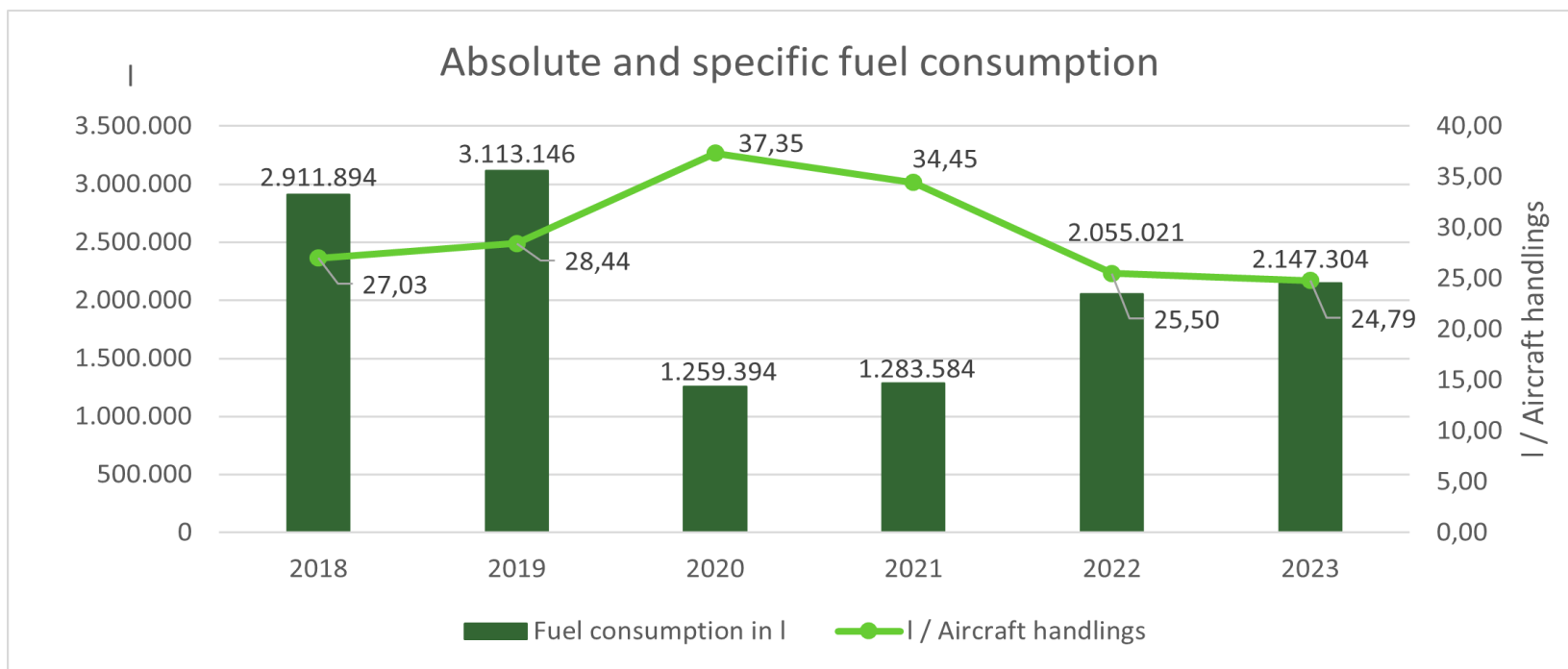
Indicator	Unit	2018	2019	2020	2021	2022	2023
Electrical power consumption	MWh	1.035	1.009	415	412	682	718
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
Consumption per Aircraft handling	kWh / Aircraft handlings	9,61	9,22	12,32	11,07	8,46	8,28





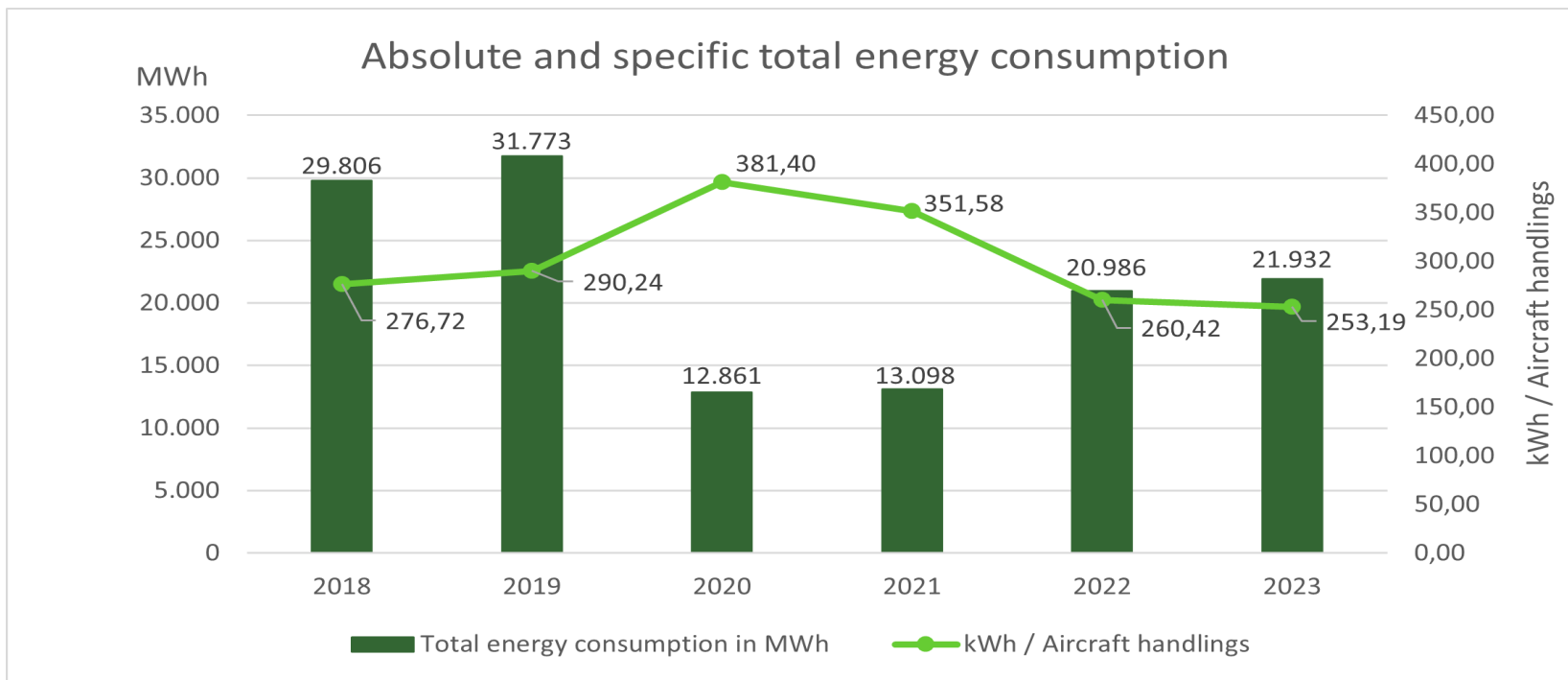
## Absolute and specific fuel consumption

Indicator	Unit	2018	2019	2020	2021	2022	2023
Fuel consumption	l	2.911.894	3.113.146	1.259.394	1.283.584	2.055.021	2.147.304
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
Consumption per Aircraft handling	l / Aircraft handlings	27,03	28,44	37,35	34,45	25,50	24,79



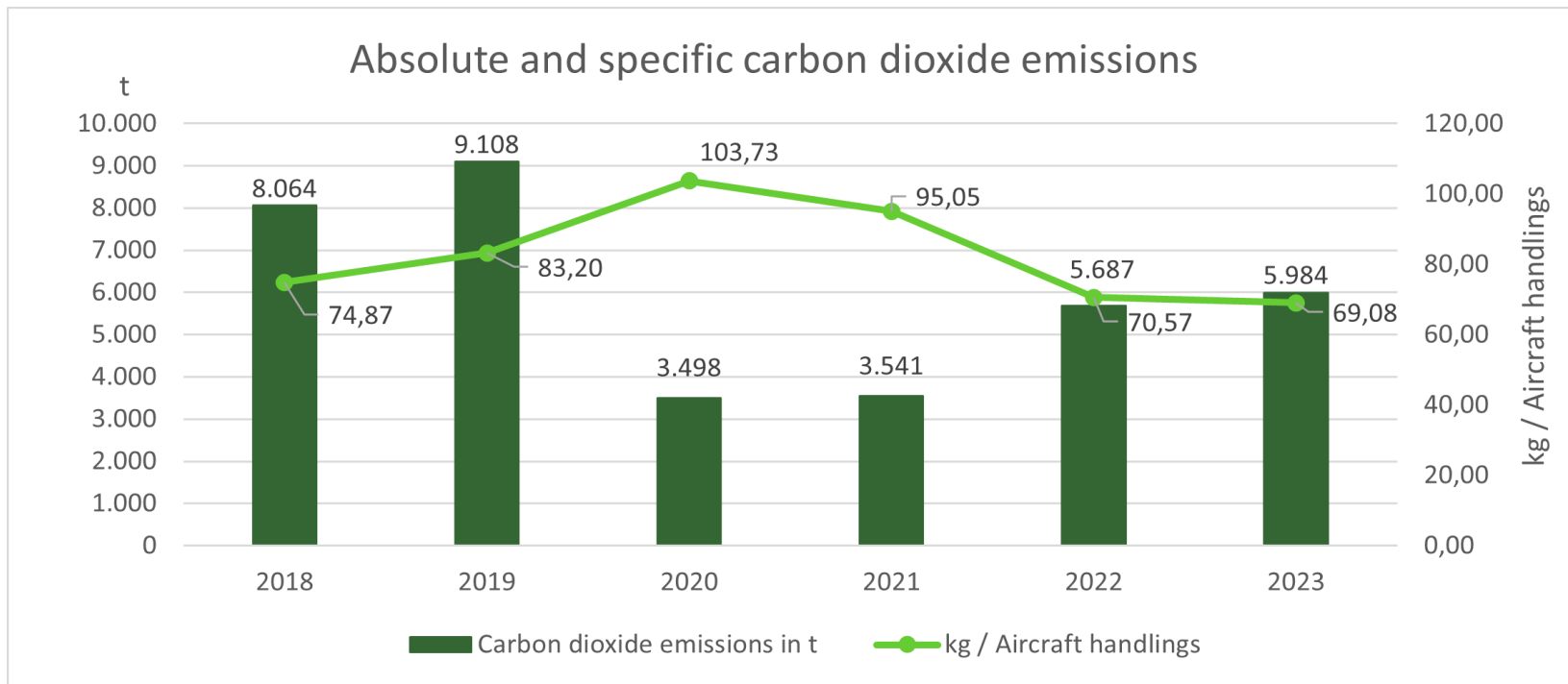
## Absolute and specific total energy consumption

Indicator	Unit	2018	2019	2020	2021	2022	2023
Total energy consumption	MWh	29.806	31.773	12.861	13.098	20.986	21.932
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
Total energy consumption per Aircraft handling	kWh / Aircraft handlings	276,72	290,24	381,40	351,58	260,42	253,19



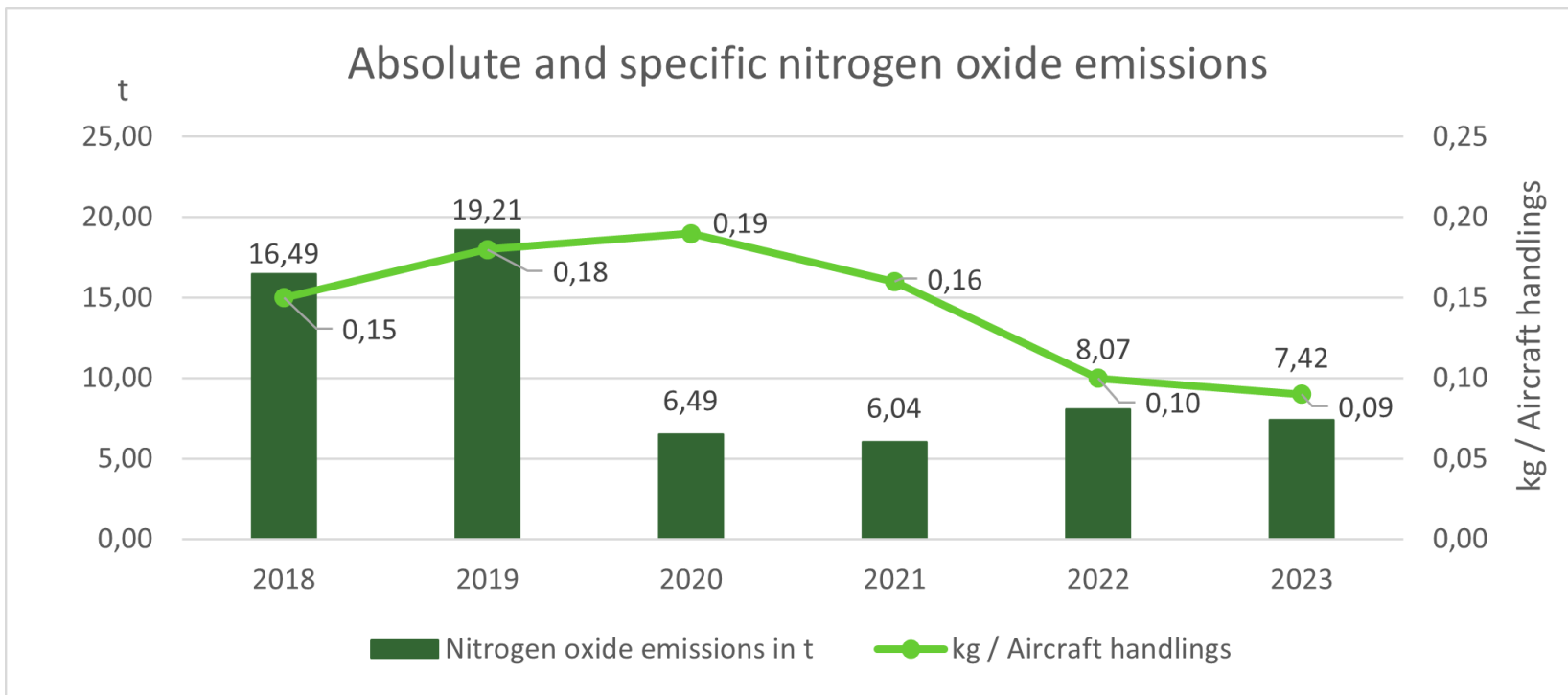
## Absolute and specific carbon dioxide emissions

Indicator	Unit	2018	2019	2020	2021	2022	2023
CO <sub>2</sub> amount	t	8.064	9.108	3.498	3.541	5.687	5.984
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
CO <sub>2</sub> amount per Aircraft handling	kg / Aircraft handlings	74,87	83,20	103,73	95,05	70,57	69,08



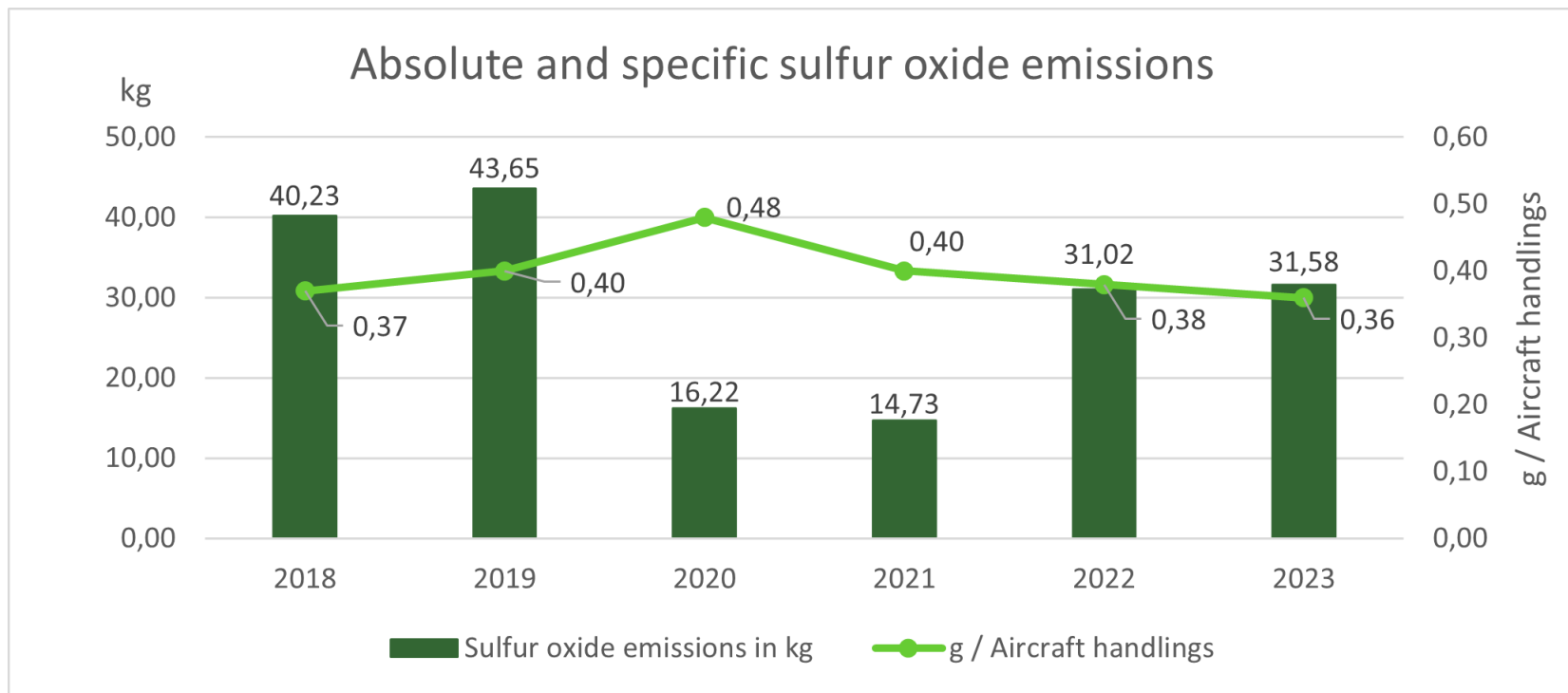
## Absolute and specific nitrogen oxide emissions

Indicator	Unit	2018	2019	2020	2021	2022	2023
NO <sub>x</sub> amount	t	16,49	19,21	6,49	6,04	8,07	7,42
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
NO <sub>x</sub> amount per Aircraft handling	kg / Aircraft handlings	0,15	0,18	0,19	0,16	0,10	0,09



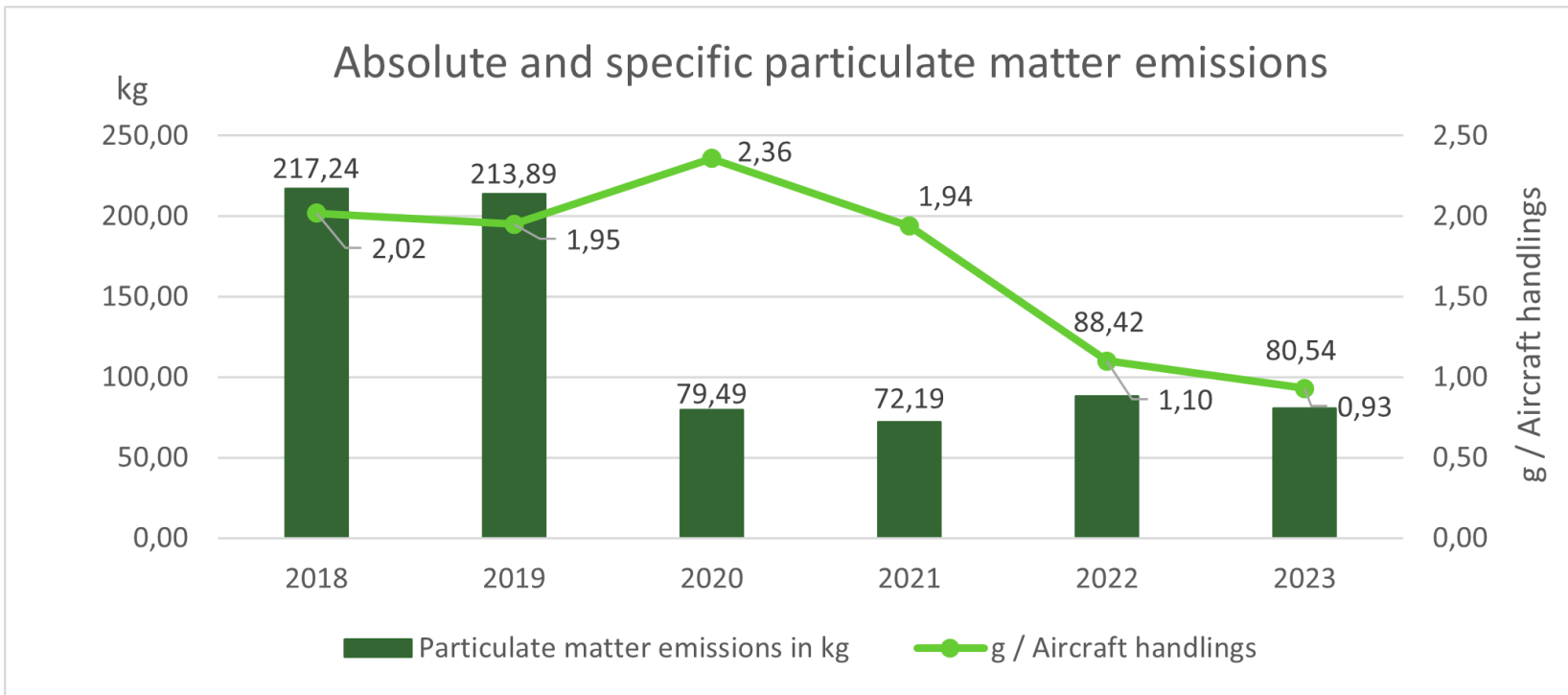
## Absolute und spezifische sulfur oxide emissions

Indicator	Unit	2018	2019	2020	2021	2022	2023
SO <sub>x</sub> amount	kg	40,23	43,65	16,22	14,73	31,02	31,58
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
SO <sub>x</sub> amount per Aircraft handling	g / Aircraft handlings	0,37	0,40	0,48	0,40	0,38	0,36



## Absolute and specific particulate matter emissions

Indicator	Unit	2018	2019	2020	2021	2022	2023
PM <sub>10</sub> amount	kg	217,24	213,89	79,49	72,19	88,42	80,54
Annual Aircraft handlings	Aircraft handlings	107.711	109.471	33.721	37.254	80.585	86.622
PM <sub>10</sub> amount per Aircraft handling	g / Aircraft handlings	2,02	1,95	2,36	1,94	1,10	0,93



## Environmental Verifier's Declaration

on verification and validation activities  
according to Annex VII of the Regulation (EC) No 1221/2009 and  
amending regulation 2017/1505 and 2018/2026

The undersigned, Dr.-Ing. Reiner Beer, EMAS environmental verifier with the registration number DE-V-0007, accredited or licensed for the scope 52.23.9 (NACE Code Rev. 2), declares to have verified whether the site or the whole organisation as indicated in the environmental statement/updated environmental statement

**AEROGROUND FLUGHAFEN MÜNCHEN GMBH**  
NORDALLEE 25, 85356 MÜNCHEN

meets all requirements of Regulation (EC) No 1221/2009 of the European Parliament and of the Council of 25 November 2009 and amending regulation 2017/1505 of 28.08.2017 and 2018/2026 of 19.12.2018 on the voluntary participation by organisations in a community eco-management and audit scheme (EMAS).

By signing this declaration, I declare that:

- the verification and validation has been carried out in full compliance with the requirements of Regulation (EC) No 1221/2009 and amending regulation 2017/1505 and 2018/2026,
- the outcome of the verification and validation confirms that there is no evidence of non-compliance with applicable legal requirements relating to the environment,
- the data and information of the updated environmental statement of the organisation/site reflect a reliable, credible and correct image of all the organisations activities, within the scope mentioned in the environmental statement.

This document is not equivalent to EMAS registration. EMAS registration can only be granted by a Competent Body under Regulation (EC) No. 1221/2009. This document shall not be used as a stand-alone piece of public communication.

Nuremberg, 22 October 2024



Dr.-Ing. Reiner Beer  
Environmental Verifier

## C E R T I F I C A T E

### ISO 14001:2015

for

**AeroGround Flughafen München GmbH**

at the site

**Nordallee 25**  
**85356 München**

The DAU-accredited environmental verifier hereby certifies that the named organization has implemented an Environmental Management System.

Scope: **Other aerospace service activities n.e.c.**

With an audit it has been assessed that the requirements of  
ISO 14001:2015 are fulfilled.

**Nürnberg, 10 November 2023**

The certificate No. UG1071-2023 is valid until 9 November 2026.



**Dr. Reiner Beer**  
Environmental Verifier  
DE-V-0007



**Dipl.-Phys. Reinhard Mirz**  
Environmental Verifier  
Organisation, DE-V-0279

# CERTIFICATE



**AeroGround Flughafen München GmbH**

**Site**  
Nordallee 25  
85356 München-Flughafen

Registration-No.: DE-155-00365

Date of first registration  
27<sup>th</sup> November 2023

This certificate is valid until  
10<sup>th</sup> November 2026

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 ([www.emas-register.de](http://www.emas-register.de)) and therefore is entitled to use the EMAS-Logo.



Munich, 27<sup>th</sup> November 2023

Dr. Manfred Göbl  
Chief Executive Officer



# URKUNDE

Mit qualifizierten freiwilligen Umweltleistungen hat sich die

**AeroGround Flughafen München GmbH**

am Umwelt + Klimapakt Bayern beteiligt und erhält dafür als Dank und Anerkennung diese Urkunde. Die Teilnahme am Umwelt + Klimapakt Bayern erstreckt sich über einen Zeitraum von drei Jahren bis einschließlich 25.09.2027.

München, den 25.09.2024

Thorsten Glauber, MdL

Bayerischer Staatsminister für  
Umwelt und Verbraucherschutz



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