



A STAR ALLIANCE MEMBER 🏠

2022 Sustainability **Factsheet Reviews** 

## Message from the Chairman of the Board of Directors

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**Prof. Ahmet BOLAT** Chairman of the Board of Directors and the Executive Committee

In 2022 **57,581** tons and prevented **181,379** tons of CO<sub>2</sub> greenhouse gas emissions.

#### **Dear Esteemed Shareholders,**

In 2022, we lived through a period in which the global economy was healing the wounds of the pandemic process. Our Incorporation exceeded the 2019 level by achieving 71.8 million passengers and 202 billion ASK. This success lies under the innovations we implemented to remind the pleasure of flying again after a difficult period and our service understanding that has become a star in our sector. The focus of these innovations is to create an aviation service that is safe and satisfactory for our passengers.

As Turkish Airlines, we have carried many new initiatives into effect with the aim of providing our guests with a more sustainable travel experience. One of these initiatives is the "Green Class" flight, which combines the use of biofuel throughout the year with environmentally friendly products. This flight is a kind of preview of our future plans. In the coming period, we aim to further develop the products offered on this flight and expand them to all our flights.

Sustainable Aviation Fuels (SAF) are key to reducing emissions in the sector. We do not confine our efforts on SAF to biofuel use. In 2022, we joined the Global SAF Declaration, representing a collaborative initiative established by stakeholders in the aviation, aerospace, and fuels sectors to decarbonize the sector. We will continue to develop broader partnerships to promote the use of these fuels.

Thanks to our comprehensive fuel efficiency policy, which includes the use of Sustainable Aviation Fuels, we prevent tons of emissions each year. By adding new-generation aircraft to our fleet, we increased our aircraft number to 394 while maintaining an average fleet age of 8.7 years. With highly fuelefficient, new-generation aircraft and operational improvements, we achieved a fuel saving of 57,581 tons and prevented 181,379 tons of  $CO_2$  greenhouse gas emissions in 2022.

We aim to develop broader collaborations not only with organizations within the aviation sector but also with all our stakeholders, including our employees and passengers. The CO<sub>2</sub>mission platform, which we launched in 2022, is one of the finest examples of collaboration with our guests who desire to be a part of the process of improving the world. Through the voluntary carbon offset platform CO<sub>2</sub>mission, travel enthusiasts can offset the unavoidable emissions from their flights by supporting various development projects. Thanks to our passengers' contributions, made entirely on a voluntary basis, approximately 1.5 million kilograms of carbon dioxide were offset in one year. At Turkish Airlines, we also offset the emissions resulting from our employees' business travels through CO mission. However, our efforts in carbon offsetting practices for unavoidable emissions management go beyond this. Throughout the year, we offset a total of 8,968 tons of greenhouse gas emissions within emission trading systems such as EU ETS, UK ETS, and CH ETS. We voluntarily implement CORSIA, the International Civil Aviation Organization's Carbon Offsetting and Reduction Scheme for International Aviation, from the pilot phase onwards, in line with the scheme's timeline and requirements, and we will offset our emissions within this scope.

In our sustainability efforts, which are based on a multi-stakeholder, collaborative, and interdisciplinary approach, we have unified under the motto 'Tomorrow On-Board' during the reporting period. This enables us to carry out these activities in a more comprehensive perspective in the light of the UN Sustainable Development Goals. In 2022, our inclusion among the supporters of the UN Global Compact, the world's largest corporate sustainability initiative, also demonstrates our commitment to adopting the UN Sustainable Development Goals as a guiding principle.

Like the bridges we build between our stakeholders and various fields that serve sustainability, we are also building bridges between countries, continents, and cultures in a manner befitting our mission. In 2022, our Incorporation conducted flights to 25 out of the 46 least developed countries recognized by the United Nations, carrying 1.4 million passengers. As the only airline flying to 152 international destinations, we provide unique support for sustainable development. Through the global connectivity we offer, we create opportunities for these regions to enhance their economic and social relationships with the world. With the momentum we gained in the reporting period, we significantly expanded our flight network. We increased the number of destinations we fly from 333 to 342, and the number of revenue passenger from 44.8 million to 71.8 million. This achievement makes our Incorporation the airline that flies to the most countries globally, and the flag carrier-network airline with the highest number of flights in Europe.

In 2023, we will commemorate two significant milestones, both for the Republic of Türkiye and for our Incorporation. We will have the honor of celebrating the 100th anniversary of our Republic and the 90th anniversary of our Incorporation together. In this outstanding year, while continuing our double-digit growth, we will add our 400th aircraft to our fleet and welcome our one billionth passenger with a warm "Welcome..." As the global face of Türkiye, we will continue to progress towards becoming a world-class airline, setting an example with our sustainability performance.

On this occasion, I would like to extend our gratitude to all our stakeholders, including our employees, business partners, shareholders, and passengers, for their trust in our Incorporation on this journey.



## **Turkish Airlines** At a Glance

Turkish Airlines, the flag carrier airline of the Republic of Türkiye, has taken its place among the largest airline companies in the world with its rapid growth trend since its foundation in 1933, with the objective of carrying out domestic and international passenger and cargo air transportation activities.

Today, Turkish Airlines continues to grow with the objective of having the youngest and most modern fleet in Europe with its 18 subsidiaries and affiliates, a paid-in capital of 1.38 billion TL, and more than 65,000 employees, including its subsidiaries.

With 394 passenger and cargo aircraft in its fleet, Turkish Airlines is the airline company that flies to the most countries in the world, with 342 domestic and international destinations in 2022. This year, Turkish Airlines transported 71.8 million passengers, 1.7 million tons of cargo and mail with 472,707 landings.

> Ð 342 domestic and international destinations

394

passenger and

cargo aircraft

Türkiye Wealth Fund: 49.12%

**Turkish Airlines Ownership Structure** 







### **Turkish Airlines 2022 Awards**



**Europe's Best Airline** (Skytrax Passenger Choice Awards)

Southern Europe's Best Airline (Skytrax Passenger Choice Awards)

World's Best **Business Class Catering** (Skytrax Passenger Choice Awards)

Europe's **Best Economy Class Airline** (Skytrax Passenger Choice Awards)

echbrands

Most Technological

Airline Brand of Türkiye

(Tech Brands Türkiye)



**5 Star Global Airline** (APEX The Airline Passenger **Experience Association**)

**APEX World Class 2022** (APEX The Airline Passenger Experience Association)

**Europe's Best Food and Beverage** Service

(APEX – Passenger Choice Awards)

Europe's Best Seat Design (APEX – Passenger Choice Awards)



(Happy Place to Work)



Airline of the Year for Sustainability Innovation (CAPA)



Most Sustainable Flag **Carrier Airline** (World Finance 2022



Sustainability Performance **Evaluation Silver Medal** (Ecovadis)



Most Valuable Brand of Türkiye (Brand Finance)



Service Export **Special Award** (Turkish Exporters Assembly)



**Best Transatlantic Airline Award** (Business Traveler- 2022)



2022 Readers' Choice Awards Condé Nast Traveller Magazine



PAX International Readership Awards (PAX International & PAX Tech)



LACP 2022 Spotlight Awards **Global Communications Competition – Gold Award** (LACP)









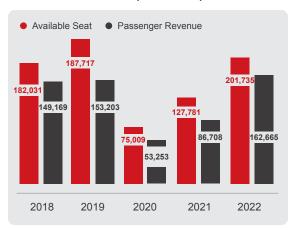
## Financial and Operational Performance

After the profound effects caused by the Covid-19 restrictions on the aviation industry in 2020-2021, Turkish Airlines left behind a successful year financially and operationally, despite all the challenging conditions that continued to affect the industry in 2022.

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Financial Performances (million USD dollars)	2018	2019	2020	2021	2022
Net Revenue	12,855	13,229	6,734	10,686	18,426
Passenger Revenue	10,918	11,167	3,792	6,390	14,291
Cargo Revenue	1,647	1,688	2,722	4,015	3,735
Other Revenue	290	374	220	281	400
Operating Profit (million USD)	1,191	876	-255	1,414	2,779
EBITDA	2,463	2,589	1,481	3,416	4,947
EBITDAR (million USD)	3,349	3,107	1,866	3,744	5,377
EBITDAR Margin (%)	26.0%	23.5%	27.7%	35.0%	29.2%
Net Debt	7,687	10,107	14,120	11,596	8,714
Total Assets	20,732	24,724	25,530	26,537	30,944
Return on Equity (%)	13.0%	11.0%	-16.0%	14.0%	32.87%

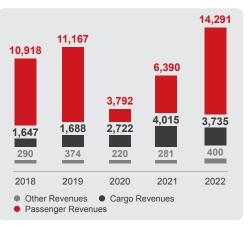
#### ASK and RPK Growth (Million KM)



#### Revenue Breakdown By Category (Million Usd)

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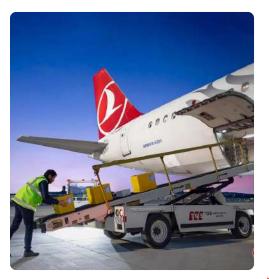


#### Unit Revenues and Costs (USD cent "USC")



RASK2 (Incl. Cargo ACTK)\*: Total Revenue/ASK2 (Cargo Aircraft Capacity Incl. Available Cargo Ton KM)

CASK2 (Incl. Cargo ACTK)\*: Total Cost/ASK2 (Cargo Aircraft Capacity Incl. Available Cargo Ton KM)







<b>Operational Performances</b>	2018	2019	2020	2021	2022
Total Flight Miles (nautical mile)	467,942,609	500,095,380	254,970,056	379,947,624	515,501,080
Available Seat*Km (million Km)	182,031	187,717	75,009	127,781	201,735
Revenue Passenger*Km (million Km)	149,169	153,202	53,253	86,708	162,665
Revenue Passenger (person)	75,167,807	74,282,064	27,951,286	44,791,503	71,817,525
Passenger Load Factor (%)	81.9%	81.6%	71.0%	67.9%	80.6%
Flight Destinations	310	322	324	333	342
Number of Landings	511,064	507,352	240,353	357,206	472,707
Distance Flown Km (thousand)	866,630	926,224	472,246	703,643	954,708
Cargo & Mail Carried (ton)	1,412,423	1,544,341	1,494,276	1,880,949	1,678,953
Excess Baggage Carried (ton)	7,717	11,848	7.513	22,181	31,519
Baggage Irregularity Rate (‰)	5.2‰	5‰	3.9‰	3.7‰	5.3‰
Turkish Airlines-Only International Routes	146	154	155	142	152
Turkish Airlines-Only International Routes within Top 20 Airline Companies	209	219	216	203	223
Turkish Airlines-Only International Destinations within Top 20 Airline Companies	30	30	24	22	21





# Our Contribution to the Economy

The aviation industry, which connects different cultures and markets in the world effortlessly, quickly, and economically, has a strategic importance for the development of the world economy.



#### Local Procurement Rate By Expenditure (%)

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Direct Economic Impact Distribution (million USD)	2018	2019	2020	2021	2022
Direct economic value generated - Net Sales Revenue	12,855	13,229	6,734	10,686	18,426
Direct economic value distributed	11,686	12,644	7,264	9,411	15,710
Activity costs	9,827	10,477	6,103	8,051	13,473
Wages and benefits paid to employees	1,772	2,067	1,097	1,298	2,140
Dividends paid	0	0	0	0	0
State taxes and similar payments	41	52	41	37	57
Donations, sponsorships, and corporate responsibility expenditures	46	48	23	25	40

Direct Economic Immed Distribution

	2018	2019	2020	2021	2022
Investments (million USD)	2,940	4,315	4,903	4,193	5,499
Fleet investments	1,291	2,402	2,926	2,061	2,879
Financial Lease Refunds	906	974	1,541	1,786	1,655
Other	743	939	436	346	965

Taxes paid (TL)	2018	2019	2020	2021	2022
Türkiye	773,139,271	1,441,302,581	898,893,051	1,472,755,988	4,139,375,929
Other States	59,865,126	66,849,176	59,912,800	54,248,048	241,316,083
Airports	1,108,276,906	1,120,050,112	425,535,737	740,139,335	1,310,017,369

Incentives from Government and International Institutions (million USD)	2018	2019	2020	2021	2022
	62	110	164	187	183



#### Local Procurement Rate By Number Of Suppliers (%)



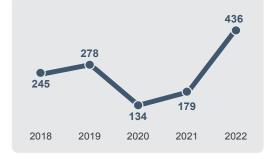
## Business Ethics and Code of Conduct

Turkish Airlines follows internationally recognized principles of business ethics and conduct in all its operations and decisions.



To increase the awareness of the Incorporation's managers and employees on the corporate ethical culture, a Code of Ethics Training program was created. This program aims to train them with the expected attitudes aligned with Turkish Airlines' Ethical Values and with the desired approach in potential suspicious situations. The training covers topics such as "Code of Ethics, Violations of Code of Ethic , Ethical Line, Ethics Committee" and extends beyond general business ethics principles to include legal compliance, anti-corruption, anti-bribery efforts and fair competition.

#### Number of Ethics Line Applications



#### **Number of Reported Discrimination Cases**



#### 2018 2019 2020 2021 2022

### Code of Ethics, Anti-Bribery and AntiCorruption Training

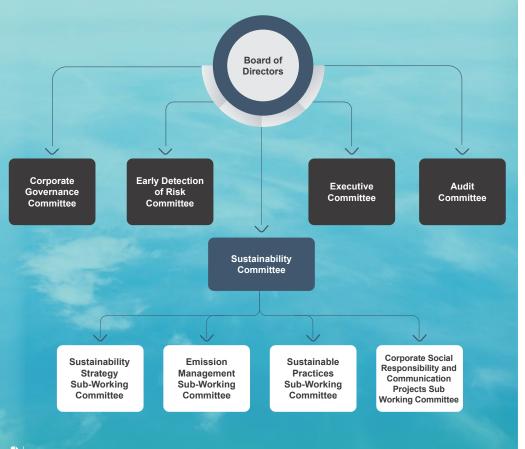
Total training participants (number of peopl	e) 5,910	4,320	2,420	6,207	9,463
Total training hours (person*hou	ır) 2,955	2,160	1,210	3,103	4,416
Ethical Line Grievances (number)	245	278	134	179	436
Discrimination Grievances (number)	9	5	2	4	1
Total Amount of Significant Cash Fines Paid (million TL)	-	-	-	1,1	-
Non-monetary Sanctions (number)	-	-	-	1	-





## Sustainability Management

In 2022, Turkish Airlines named its sustainability vision as **"Tomorrow On-Board"** in order to ensure that sustainability management processes are managed with a common corporate understanding. It is aimed to develop a holistic communication approach with the **"Tomorrow On-Board"** motto, which will also guide the future sustainability practices of the Incorporation.



ᡖ | The above diagram is not the organisation chart of Turkish Airlines, but describes the functions representing the management of the relevant processes.

The most senior governance bodies responsible for sustainability management at Turkish Airlines are the Board of Directors and the Executive Committee. The main responsibility of the Board of Directors and the Executive Committee is to manage the social, economic and environmental impacts arising from the operations of Turkish Airlines and to assess the sustainability risks and opportunities that may affect the operations of the Incorporation.

The Sustainability Committee is responsible for the effective implementation of these processes at all levels of the Incorporation. The Sustainability Committee, chaired by the CEO with the participation of the Chief Officers and SVP (Senior Vice President) of Subsidiaries, convenes at least once a quarter. The Sustainability Committee reports to the Board of Directors the risks and opportunities regarding material sustainability issues. assessments of the performance results obtained as a result of the activities of the organisation, feedback from internal and external stakeholders and the practices decided to improve the sustainability performance of the Incorporation in the light of this information.

Taking into account the material sustainability issues of the Incorporation, legal regulations, sector trends, best practices, stakeholders' expectations and developments in the global agenda, four different Sustainability SubWorking Committees have been established to work on corporate social responsibility and communication projects, sustainability practices, sustainability strategy and emission management. Sustainability Sub-Working Committees first determine the projects that can be implemented within the Incorporation and submit their decision proposals to the Sustainability Committee for approval.



### **Sustainability Priorities**

Aviation industry activities are closely related to a wide range of social, economic and environmental issues. However, not all of these issues may have the same priority in the sustainability strategy for each company. Turkish Airlines' sustainability strategy has been formulated within the framework of social, economic and environmental issues that may arise as a result of the Incorporation's activities, products and services or that may affect these activities, products and services. These issues are prioritised and classified through a systematic process designed in line with international standards and involving the opinions and suggestions of external stakeholders, and constitute the sustainability strategy of the Incorporation.

Turkish Airlines' sustainability priorities were revisited in the previous reporting period. In this process, global megarisk trends, international initiatives and reporting standards and prominent practices in the aviation industry were taken into consideration. As a result, social, economic and environmental issues specific to Turkish Airlines Sustainability Programme were identified. In the process of identifying material issues, 17 Sustainable Development Goals were also assessed in terms of the impacts, risks and opportunities they may pose on Turkish Airlines' operations, products and services. A total of 1,434 Turkish Airlines employees, including 98 managers, 857 office employees and 479 flight crew, participated in the materiality study. On the other hand, 281 external stakeholders, including investors and shareholders, customers, financial institutions, subsidiaries, suppliers, insurance and brokerage companies, provided feedback during the prioritisation process. The results obtained from these studies were re-evaluated in a workshop with a wide participation of company executives, and then submitted to senior management for approval, and sustainability priorities were determined.





#### Sustainability Strategy





### Support of Turkish Airlines to the Sustainable Development Goals

Turkish Airlines has also included the United Nations Sustainable Development Goals in the materiality study carried out within the scope of its sustainability program; SDG5, SDG7, SDG8, SDG9, SDG12, SDG13, SDG16, SDG17 have been identified as the areas of work to be targeted in the coming periods. On the other hand, Turkish Airlines also contributes to many other SDGs other than those prioritized through its operations.

Supported SDGs	Sub-Goals	Description	References
1 <sup>NO</sup> <b>市</b> *布布市	1.1 Eradicate extreme poverty 1.4 Equal rights to ownership, basic services, technology and economic resources	"Turkish Airlines generates direct and indirect economic value in the geographies where it operates through its value chain and the socioeconomic impact it provides at its destinations, and together with its subsidiaries, creates employment for more than 75,000 people. Compared to other sectors, each job created in the aviation industry is 175% more productive and creates a greater added value. In 2022, Turkish Airlines flew to 25 of the 46 countries categorized as the least developed countries by the United Nations. Thus, by carrying the production of underdeveloped or developing countries to target markets, Turkish Airlines contributes to their economic development, employment and income growth.	ਰ Support to the Economy (p.10)
3 GOOD HEALTH AND WELL-BEING	<ul><li>3.3 Fight communicable diseases</li><li>3.8 Achieve universal health coverage</li><li>3.8 Support research, development and universal access to affordable vaccines and medicines</li></ul>	With the end-to-end cold chain corridor established on over 400 different routes, Turkish Cargo plays an active role in the market for the transportation of vaccines and medicines at appropriate temperatures and conditions. Turkish Airlines flies to different destinations in many geographies, especially in Africa, and supplies vaccines and medical supplies to these regions, enabling the population to access vaccines and medicines.	⊠ Turkish Airlines 2022 Annual Report (p.89)
4 QUALITY EDUCATION	<ul> <li>4.3 Equal access to affordable technical, vocational and higher education</li> <li>4.4 Increase the number of people with relevant skills for financial success</li> <li>4.5 Eliminate all discrimination in education</li> </ul>	It is prerequisite for operating in the aviation sector to have a human resource with the highest level of training and professional capacity. With its international competencies, experience and technical infrastructure, Turkish Airlines plays an important role in both the training of its own employees and bringing new professionals to the sector. In this context, Turkish Airlines' support for undergraduate and graduate programs of universities and collaborations established with them, enables employee development, improves sectoral knowledge and increases employment opportunities.	금 Talent Management (s.82)



Supported SDGs	Sub-Goals	Description	References
5 GENDER EQUALITY 10 REDUCED 10 REQUALITIES 10 REQUALITIES	<ul> <li>5.1 End discrimination against women and girls</li> <li>5.5 Ensure full participation in leadership and decision-making</li> <li>5.C Adopt and strengthen policies and enforceable legislation for gender equality</li> <li>10.2 Promote universal social, economic and political inclusion</li> <li>10.3 Ensure equal opportunities and end discrimination 10.4 Adopt fiscal and social policies that promotes equality</li> <li>10.A Special and differential treatment for developing countries</li> </ul>	Diversity and equality are amongst Turkish Airlines' most fundamental corporate values. Equal treatment of all employees in all areas is of primary importance in terms of both human rights and corporate policies. Studies are carried out to ensure that female employees take a balanced place in technical and managerial roles where there is insufficient representation and to improve their career opportunities, and within this scope, partnerships with national and international initiatives are developed. While the participation of disadvantaged individuals in the workforce is supported by fair wages and working conditions, working conditions are facilitated by responsible HR policies. Turkish Airlines carries out internal and external process improvement, sustainable development management and corporate social responsibility activities to make its products and services more accessible to disabled, disabled-veteran, elderly, pregnant and disadvantaged passengers. With the end-to-end cold chain corridor established on over 400 different routes, Turkish Cargo has maintained its connectivity by continuing its flights to many developing and underdeveloped countries, and supported these countries experiencing inequalities in access to vaccines and medical supplies.	- Gender Balance (p.79) ☑ Turkish Airlines 2022 Annual Report (p.89)
7 AFFORDABLE AND CLEAN ENERGY 12 RESPONSIBLE CONSUMPTION AND PRODUCTION COCO 13 CLIMATE	<ul> <li>7.2 Increase global percentage of renewable energy</li> <li>7.3 Double the improvement in energy efficiency</li> <li>7.4 Promote access to research, technology and investments in clean energy</li> <li>12.2 Sustainable management and use of natural resources</li> <li>12.4 Responsible management of chemicals and waste</li> <li>12.5 Substantially reduce waste generation</li> <li>12.6 Encourage companies to adopt sustainable practices and sustainability reporting</li> <li>12.8 Promote universal understanding of sustainable lifestyles</li> <li>13.1 Strengthen resilience and adaptive capacity to climate-related disasters</li> <li>13.2 Integrate climate change measures into policies, and planning</li> <li>13.3 Build knowledge and capacity to meet climate change</li> </ul>	Turkish Airlines manages its environmental and climate impacts within the framework of its Sustainability Policy and Environmental Policy. In line with this context, impacts on the climate and the environment are managed with responsible practices and projections such as responsible procurement, waste management, energy and emission management, and clean energy, and the progress achieved by carrying out performance-enhancing studies is reported. Aware of the negative impacts of the global climate crisis and the role of the aviation industry, Turkish Airlines works to reduce its carbon footprint and minimize climate-related risks. To this end, Turkish Airlines increases fuel efficiency by optimizing flight operations, strengthens its fleet with new generation aircraft with high fuel efficiency, collaborates with universities to increase the use of biofuels and supports sustainable biofuel research and development efforts. Aware of the importance of global cooperation, Turkish Airlines takes part in joint efforts to decarbonize sustainable aviation fuel with stakeholders in the aviation, aerospace and fuel sectors, and continues to invest in and support sustainable aviation fuels, while significantly reducing its emissions through investments in the inclusion of new generation aircraft in the fleet, operational improvements and advanced fuel saving practices. On the other hand, Turkish Airlines also works to transition to sustainable product options with its in-flight catering practices. In this context, sustainable products and resource efficiency are supported by preferring recyclable and less waste-generating options in the materials used, and internal communication activities are carried out to raise employee awareness on sustainable living. With the CO <sub>2</sub> mission Programme launched during the reporting period, all travellers can support sustainable development projects by offsetting their flight emissions.	₽ Responsible Company (p.36)
8 DECENT WORK AND ECONOMIC GROWTH	<ul> <li>8.1 Sustainable Economic Growth</li> <li>8.3 Promote policies to support job creation and growing enterprises</li> <li>8.5 Full employment and decent work with equal pay 8.7 End modern slavery, trafficking, and child labour 8.8 Protect labour rights and promote safe working environments</li> </ul>	Aiming to generate economic value for its stakeholders with the business model it has developed with the awareness of being a fair employer and a safe operator, Turkish Airlines offers its employees a safe and fair work life that is open for development. Turkish Airlines, which accepts flight safety and security as a fundamental working standard that cannot be compromised under any circumstances, always aims for the highest standards in its operations. Conducting its operations in line with its principle of respecting human rights, Turkish Airlines assures all the rights of its employees with its ethical principles and policies. It provides a working environment where any practices that violate human rights such as modern slavery and forced labor, including human trafficking, cannot be found under the umbrella of the Incorporation.	Support to the Economy (p.10) Fair Employer (p.77) Reliable Operator (p.61) Business Ethics and Ethical Behavior (p.19)

Tomorrow On-Board On-Board



Supported SDGs	Sub-Goals	Description	References
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	9.4 Upgrade all industries and infrastructures for sustainability 9.5 Enhance research and upgrade industrial technologies	Turkish Airlines, the official flag carrier of the Republic of Türkiye and the airline that flies to most countries and international destinations in the world, has been constantly renewing its fleet since its foundation. With an average age of 8.7 years, Turkish Airlines has one of the youngest fleets in the world. The Incorporation aims to increase its fleet to 435 aircraft and expand its flight network with the new generation aircraft investment plan. Investing in R&D and innovation, especially in digitalization activities, in order to ensure the endurance of its operations and increase business continuity, Turkish Airlines constantly improves its operating infrastructure. While focusing on solving problems with new generation technology companies thanks to its open innovation strategy, it develops new technologies by managing resource efficiency and carries out cooperation programs to create new opportunities.	Image: Sustainable Aviation         Sustainable Aviation         Fuels (p.48)         Image: Superscript and Superscrint and Superscript and Superscript and Supe
11 SUSTAINABLE CITIES	11.2 Affordable and sustainable transport systems 11.5 Reduce the adverse effects of natural disasters 11.6 Reduce the environmental impacts of cities	The aviation industry connects cities around the world, supporting economic activity and cultural exchanges. At the same time, the aviation sector has impacts on sustainable urban living, such as emissions and noise. Turkish Airlines invests in fleet modernization to reduce emissions and noise levels and contributes to reducing the negative environmental impact of cities through waste management practices. Emergency transportation becomes a top priority in disaster situations. In various emergency situations, particularly earthquakes, Turkish Airlines, in coordination with public institutions and NGOs, organizes emergency relief operations to meet the needs of people in disaster areas.	<b>금</b> Fleet Modernization (p.60)
15 UFE ON LAND	15.3 End desertification and restore degraded land 15.7 Eliminate poaching and trafficking of protected species	Turkish Airlines signed the "United for Wildlife Buckingham Palace Declaration" (UFW), supported by IATA, which aims to prevent the illegal trade of wild animals and to raise sectoral awareness on this issue. Thus, it helps to prevent the illegal trade of wild animal parts such as ivory, rhino horns and tortoise shells. On the other hand, while environmentally friendly materials are preferred in the headset and blanket sets we offer to our passengers, the toys offered to our child passengers are produced with "Forest Stewardship Council (FSC)" certified products.	· Sustainable Aviation Fuels (p.48) - Environmental Management (p.50)
16 PEACE JUSTICE AND STRONG INSTITUTIONS	16.5 Substantially reduce corruption and bribery 16.6 Develop effective, accountable and transparent institutions 16.10 Ensure public access to information and protect fundamental freedoms 16.B Promote and enforce non-discriminatory laws and policies	Turkish Airlines carries out its activities in line with the principles of transparency and accountability, in line with the inclusive, internationally accepted corporate governance and ethical rules that are responsible to its stakeholders.	금 Management Fundamentals (p.14)
17 PARTNERSHIPS FOR THE GOALS	<ul> <li>17.6 Knowledge sharing and cooperation for access to science, technology and innovation</li> <li>17.11 Increase the exports of developing countries</li> <li>17.14 Enhance policy coherence for sustainable development</li> <li>17.16 Enhance the global partnership for sustainable development</li> <li>17.17 Encourage effective partnerships 17.18 Enhance availability of reliable data</li> </ul>	Turkish Airlines develops partnerships with various institutions and organizations in line with the 2030 Global Goals and common goals of sustainable development. By taking part in the sustainability initiatives created by international organizations that shape aviation practices, the practices of the Incorporation are developed and contribute to the formation of the international sustainability agenda.	Stakeholder Engagement (p.31) Support to the Economy (p.10) Sesponsible Compnay (p.36)



## Corporate Memberships

Turkish Airlines develops collaborations, participates in international organisations and initiatives, and plays an active role in setting sectoral standards in order to develop sectoral activities and achieve common goals on sustainability priorities.



Membership Organizations and Initiatives	Level of Engagement
AACO - The Arab Air Carriers' Organization	Partner Membership
AACO DTTF – AACO Digital Transformation Task Force	Member
AACO AWG – AACO Aeropolitical Watch Group	Member
AACO SAFTF – AACO Sustainable Aviation Fuel Task Force	Member
AIRE- Airlines International Representation in Europe	Board Membership
AIRE Social Media, Communication, PR and Marketing Task	Member
AIRE ASTF – AIRE Slots Task Force	Member
AIRE STF – AIRE Sustainability Task Force	Member
AIRE EASA Regulatory Task Force	Member
ALTA- Latin American & Caribbean Air Transport Association	Partner Membership
ATA- Animal Transportation Association	Member
Global SAF Declaration	Signatory
HIB - Service Exporters' Association - Freight Transport and Logistics Services Committee	Board Membership/ Member
IATA- International Air Transport Association	Member / Board Membership
IATA 25by2025 Initiative	Signatory
IATA CARGO	Advisory Board Membership
IATA CAC- IATA Cargo Advisory Council	Member
IATA CSC – IATA Cargo Services Conference, Dangerous Goods Board, Live Animals and Perishables Board, Cargo Operations and Technology Board, Air Mail Board, Cargo Border Management Board, ULD Board	Board Membership/ Observer Member
IATA DTAC- IATA Digital Transformation Advisory Council	Member
IATA IAAC- IATA Industry Affairs Advisory Council	Member
IATA LAC – IATA Legal Advisory Council	Member
IATA TrackZero2050 Working Group	Member
IATA IOSA Maintenance Task Force	Member
iGA (Istanbul Grand Airport) Noise Working Committee	Member
IATA EOC- IATA Environmental Assessment Oversight Council	Member

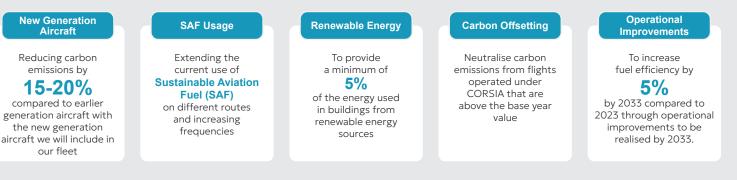
Membership Organizations and Initiatives	Level of Engagement
IATA SEAC SUPWG- Sustainability Environmental Advisory Council, Single-Use Plastics Working Group	Member
ICAO Ad Hoc Working Group on Combatting Trafficking in Supply Chain Working Group	Member
IPATA- The International Pet and Animal Association	Member
Istanbul Economy Summit	Board Membership
Pharma.Aero	Member
Star Alliance	Full Member & Committee Memberships
Star Alliance Chief Executive Board (CEB)	Member
Star Alliance Alliance Management Board (AMB)	Member
Star Alliance Membership Liaison and Quality Committee(MEMCO)	Member
Star Alliance Customer Experience Committee (CUSCO)	Member
Star Alliance Loyalty Committee (LOYCO)	Member
Star Alliance IT Committee (ITCO)	Member
Star Alliance Legal Committee	Member
Star Alliance Emergency Committee	Member
Star Alliance Safety Committee	Member
Star Alliance Sustainability Committee	Member
Star Alliance Sustainability Strategy Team	Member
Star Alliance Loyalty Strategy Team	Member
Star Alliance IT Strategy Team	Member
TIACA - The International Air Cargo Association	Board Membership Member
TIACA SWG - The International Air Cargo Association, Sustainability Working Group	Member
TUYID - Turkish Investor Relations Society	Member
TUYID Sustainability Working Group	Member
TUYID Emission Management Sub-Working Group	Sub-Working Group Presidency
UN Global Compact	Participant
UNGC SDG Innovation Accelerator for Young Professionals Programme	Participant
UNGC Business & Human Rights Accelerator Programme	Participant



## Combating the Climate Change

While expanding its flight network and operations in line with the increasing demand for air transport, Turkish Airlines works to mitigate the potential negative impacts of its operations in line with the findings of the United Nations Intergovernmental Panel on Climate Change (IPCC) on climate change.

#### Sub-targets for the "2050 Carbon Neutral Airline" Target



In this context, the Incorporation considers combating climate change as a fundamental priority and integrates it into risk assessment, decision-making and implementation mechanisms for business processes.

Turkish Airlines adopts the targets set by the International Air Transport Association (IATA) for the aviation industry in terms of combating climate change. In this context, Turkish Airlines takes decisive steps to implement industry best practices by improving its performance in areas such as energy and emission management, sustainable aviation fuel studies, fleet modernisation and resource efficiency studies throughout its operations.

With Türkiye's ratification of the Paris Agreement and its commitment to net zero carbon emissions by 2053, we are reviewing our strategies in line with the agreements to which Türkiye is a party, global requirements and stakeholder expectations. In this context, Turkish Airlines supports the fight against climate change and pledges to be "Carbon Neutral by 2050".





#### **Targets for Combating Climate Change**

2022 Target	Related SDGs	2022 Performance	Realisation Level	2023 Target
Offsetting all emissions under the EU ETS	12 stratting COO	6,619 Tonnes CO <sub>2</sub>	<b>Ø</b>	Offsetting all emissions under the EU-ETS
NEW TARGET	12 storeting with the storeting with the storeting with the storeting with the storeting with the storeting with the storeting	NEW TARGET	NEW TARGET	Offsetting all emissions under the UK-ETS
NEW TARGET	12 stream in the second	NEW TARGET	NEW TARGET	Offsetting all emissions under CH-ETS
Providing GHG awareness training to 1,800 employees	12 subset COC 13 liters	3,586 Employees	•	The 2022 target has been reached and a related target has not been set for 2023.
Reduce kg/ATK by 5%by 2025 compared to 2016	7 SUBJECT 9 SECTIONARY 12 SECTION 13 SECTION 13 SECTION 13 SECTION 13 SECTION 13 SECTION 14 SECTION	COMPLETED <sup>2</sup>	0	-
45,000 tonnes of fuel savings	7 SUBJECT 9 ALEXANDER 12 SUBJECT 13 SERIE	57,581 Tonnes	0	60,000 tonnes of fuel savings
141,750 tonnes of $CO_2$ emission prevention	7 STRUCTURE 9 AND THE STRUCTURE 12 STRUCTURE S	181,379 Tonnes CO <sub>2</sub>	0	189,000 tonnes of $CO_2$ emissions prevented
Monitoring and calculation of Category 1, 2, 3, 4, 5, 6 emissions	7 SUBART 9 ARTINGTON 12 CONTRACT STATE	100%	<b>O</b>	Monitoring and calculation of Category 1, 2, 3, 4, 5, 6 emissions
Verification of 2022 GHG emissions	12 and a second	100%	0	Verification of 2023 GHG emissions
Responding to the Carbon Disclosure Project (CDP) Climate Change Programme	12 abovering COOL 13 difference COOL 13 difference	100%	0	Responding to the Carbon Disclosure Project (CDP) Climate Change Programme
Monitoring the emissions from our related flights within the scope of CORSIA and verifying the 2021 emission report and submitting it to DGCA	12 months in the second	100%	<b>•</b>	Monitoring the emissions from our related flights within the scope of CORSIA and verifying the 2022 emission report and submitting it to DGCA
NEW TARGET	12 about the second sec	NEW TARGET	NEW TARGET	Being among the organisations supporting the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) and reporting in this context
NEW TARGET	7 sector 9 sectors 12 sector 13 sector 13 sector 14 sect	NEW TARGET	NEW TARGET	The continuity of the number of routes flown using SAF
NEW TARGET	7 semicirk Signal Constraints 12 semicirk Signal Constraints 13 semi Signal Constra	NEW TARGET	NEW TARGET	Realisation of SPP Projects to be located in the working areas of the Incorporation in various regions of Türkiye
NEW TARGET	7 statistic 9 statistication 9 statistication 12 statistication 13 statistic 13 statistic 14 statistic 15 s	NEW TARGET	NEW TARGET	Ensuring the continuity of meeting at least 5% of the energy in our new buildings from renewable sources

<sup>2</sup> The target performance area, which was tracked in kg/ATK units in the previous reporting period, started to be calculated in lt/100 ASK units in the reporting period. As of the reporting period, the targeted performance was realized by reaching 3.10 lt/100 ASK.

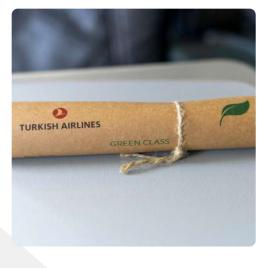


## Energy Consumption and Greenhouse Gas Emissions

Turkish Airlines Inc. adopts the principles of using energy with maximum efficiency, reducing the use of natural resources and sustainable development. During the reporting period, in parallel with the increase in the number of flights compared to the previous year, both aviation fuel consumption and other energy consumption increased. In 2022, the share of aviation fuels in total energy consumption of 252,648,196 GJ was 99.7%.

In parallel with the increased flight operations, total GHG emissions have also increased. Accordingly, a total of 22.98 million tonnes of CO2e GHG emissions occurred across the operations of the Incorporation in 2022.

	2018	2019	2020	2021	2022
Fuel Consumption (million tons)	5.3	5.6	2.9	4.2	5.7
Fuel Saving (tonnes)	29,608	55,492	22,760	37,082	57,581



Environmental Performance	2018	2019	2020	2021	2022
Total Energy Consumption (GJ)	236,312,657	247,848,257	126,067,694	187,326,898	252,648,196
Direct Energy Consumption (GJ)					
Aviation Fuel	236,005,081	247,382,766	125,592,531	186,711,059	251,890,513
Natural Gas	143,324	142,719	128,241	124,505	241,942
Gasoline and Diesel	34,187	27,536	16,761	1,675	25,332
Other	0	0	0	0	0
Indirect Energy Consumption (GJ)					
Conventional Electricity	127,828	252,226	210,985	326,487	394,003
Other Resources	2,237	43,010	119,175	163,173	32,484
Fuel Consumption					
Aviation Fuel (Ton)	5,351,589	5,609,587	2,847,903	4,233,811	5,711,803
Natural Gas (m <sup>3</sup> )	4,149,367	4,131,857	3,712,707	3,604,558	7,004,464
Gasoline (litre)	6,640	2,091	3,489	265,936	404,554
Diesel (litre)	940,453	774,876	469,721	413,430	349,411
Fuel Saving (GJ)	1,305,713	2,447,197	1,003,716	1,635,316	2,539,366
Fuel Saving (Ton)	29,608	55,492	22,760	37,082	57,581
Fuel Efficiency (Fuel consumption per 100 Offered Seat Km) (Litres/100 ASK)	3.30	3.26	3.21	3.16	3.10
Energy Intensity					
Electricity Consumption per Employee (GJ/Employee)	9.17	11.19	8.75	8.09	8.89
Electricity Consumption per Surface Area (GJ/m <sup>2</sup> )	0.45	0.64	0.49	0.42	0.60
Natural Gas Consumption per Surface Area (GJ/m <sup>2</sup> )	0.22	0.43	0.45	0.74	0.44



. . . . . .

19





35,025

9,059,793

2020

• Category 1 • Category 2 • Category 3-4-5-6

43,043

17,834,081

2019

Total GHG Emissions

23,742

17,004,857

2018

3,072,009

56,377

13,462,858

2021

18,170,030

2022

Greenhouse Gas Emissions (Ton CO<sub>2</sub>e)

#### **Carbon Offset Practices**

Emission Credits Surrendered to The Authorities	2018	2019	2020	2021	2022
Surrendered emission credits in scope of EU ETS (ton CO <sub>2</sub> )	10,617	13,240	13,835	10,838	6,619
Surrendered emission credits in scope of CH ETS (ton CO <sub>2</sub> )	-	0	48	0	52
Surrendered emission credits in scope of UK ETS (ton CO <sub>2</sub> )	-	-	-	3,130	2,297
Total Surrendered emission credits (ton CO <sub>2</sub> )	10,617	13,240	13,883	13,968	8,968
Reported number of passenger journeys	668	686	669	672	476

Total Greenhouse Gas Emissions (Tons CO <sub>2</sub> e)	2018	2019	2020	2021	2022
Total Greenhouse Gas Emissions	17,028,599	17,877,124	9,094,999	16,591,244	22,983,093
Category 1 Emissions	17,004,857	17,834,081	9,059,793	13,462,858	18,170,030
Category 2 Emissions	23,742	43,043	35,205	56,377	64,219
Category 3-4-5-6 Emissions	-	-	-	3,072,009	4,748,844

	<b>201</b> 8	2019	2020	2021	2022
Number of GHG Awareness Training Participants	5,033	3,965	2,522	1,487	3,586



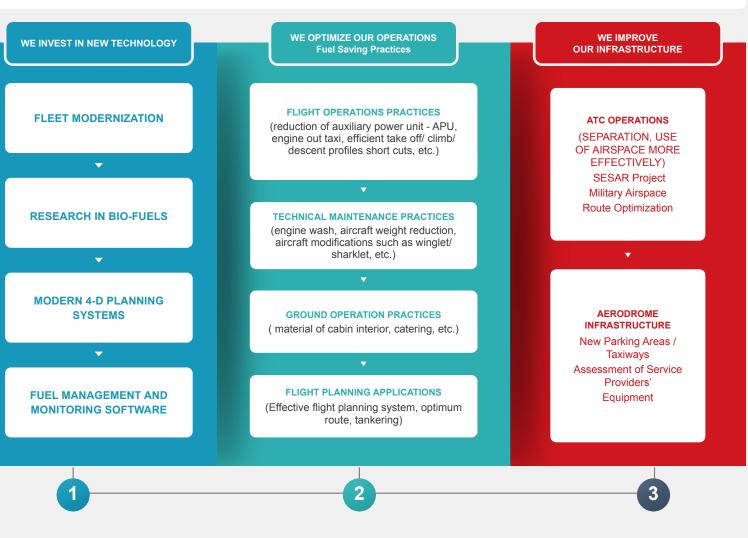
#### **Fuel Efficiency**

Fuel saving practices form the basis of Turkish Airlines' strategy to combat climate change and reduce greenhouse gas emissions. Various fuel efficiency parameters are continuously measured and monitored in accordance with the comprehensive fuel saving policy of the Incorporation, which supports the short and long term targets set by IATA. The Fuel Saving Board, which is chaired by the CEO, reviews and monitors the action plans implemented within the framework of the Fuel Efficiency Programme.

The Fuel Efficiency Performance of Turkish Airlines graph on page 45 shows the transport performance of Turkish Airlines between 2003 and 2022 and the corresponding fuel consumption. Thanks to the successful implementation of fuel efficiency projects since 2008, when the Fuel Saving Project started, the amount of fuel consumed per unit of transport activity has significantly decreased.

Based on 2008, it is seen that by 2022, transport performance has increased by

**1,143%**, while fuel consumption has increased by 692%.

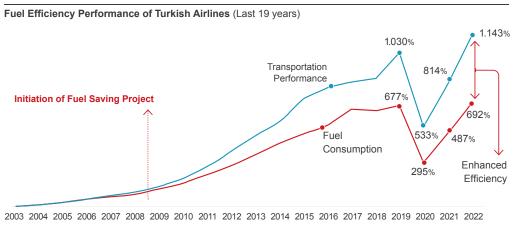


Tomorroy

Turkish Airlines' efforts on fuel efficiency are based on three pillars:

#### **Fuel Efficiency Performance of Turkish Airlines**

#### Fuel Savings and Greenhouse Gas Emission Reduction Achieved by Basic Practices



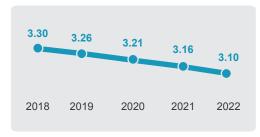
	Fuel Savings (Tonne)				GHG Emission Reduction (Tonne CO <sub>2</sub> )			
	2019	2020	2021	2022	2019	2020	2021	2022
Reduced flap take-off/ landing	9,257	5,192	7,513	9,608	29,160	16,355	23,666	30,265
Engine out taxi in	6,228	1,841	2,526	5,745	19,618	5,799	7,957	18,095
Idle reverse on landing	9,917	5,145	7,966	9,886	31,239	16,207	25,093	31,140
Continuous Descent Approach	4,291	2,631	3,744	3,942	13,517	8,288	11,794	12,417

\* For each kilogram of fuel saved, 3.15 kg of carbon dioxide (CO<sub>2</sub>) emission is prevented.

The Fuel Efficiency Performance of Turkish Airlines graph on page 45 shows the transport performance of Turkish Airlines between 2003 and 2022 and the corresponding fuel consumption. Thanks to the successful implementation of fuel efficiency projects since 2008, when the Fuel Saving Project started, the amount of fuel consumed per unit of transport activity has significantly decreased.



Fuel Consumption per 100 Available Seat Kilometres (Litres/ 100 ASK)



ASK (Corrected by adding ACTK for cargo operations)



22



In line with the increasing sensitivity on sustainability issues, the voluntary carbon offset program CO<sub>2</sub>mission was launched in August 2022 in order to meet passenger expectations and to emphasize the importance of taking action together in the fight against climate change. With the CO<sub>2</sub>mission Programme, Turkish Airlines provides travellers with the opportunity to be involved in the process of improving the world by supporting sustainable development projects. Within the scope of the project, passengers are offered the opportunity to offset the emissions of not only Turkish Airlines flights, but also all flights with other airlines. Passengers are offered 3 different portfolio/package options to offset emissions: "Renewable Energy", "Social Benefit" and "Green World". The projects within the portfolio/package options consist of globally certified, carbon credit generating, climate change combating and social development projects that support 9 different Sustainable Development Goals. A carbon offset certificate is created for our passengers who perform the offsetting process by contributing the desired amount to the portfolio of their choice. Passengers can access their online certificates at any time via the platform, share their certificates on social media, and even present carbon offsetting to their loved ones. Within the scope of the CO<sub>2</sub>mission programme, emissions from all business travels of our employees are offset by Turkish Airlines. 2,941 tonnes of carbon emissions resulting from 16,891 business trips in 2022 were offset by our Incorporation.





## **Green Class**

Connecting the most countries in the world, Turkish Airlines develops the Green Class flight concept with its practices carried out with a sense of responsibility towards the environment and society.



## Applications to be included in Green Class in 2023

- $\rightarrow$  New FSC-certified inflight products
- → Compostable, biodegradable or FSC certified cardboard cups
- → Plant-based, biodegradable Business Class "Welcome Drink" mixers
- → GRS certified slippers made from 80% recycled material
- → Reduced density polyethylene in-cabin waste collection bags
- $\rightarrow$  Wood mixers
- $\rightarrow$  Blankets and pillows using recycled yarn
- → Eye patches, socks, ear plugs, toothbrush heads made from recycled raw materials
- $\rightarrow$  Toothpaste box with recycled packaging
- ightarrow Wheat straw blend toothbrush



## Environmental Management

In line with its sustainability vision, Turkish Airlines has a comprehensive environmental management model in order to minimise the environmental impact of its operations, products and services and implements corrective practices with the principle of continuous improvement.

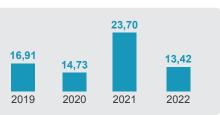


	2018	2019	2020	2021	2022
NOx Emissions (ton)					
	59,001	61,846	31,398	46,678	63,040
	2018	2019	2020	2021	2022
Water Management					
Total Water Withdrawal (m <sup>3</sup> ) - Municipal water	56,608	64,903	38,022	255,238	364,508
Water Withdrawal per Person (m³/person)	-	16.91	14.73	23.70	13.42
Waste Water Discharge (m³) (Waste Water Channel)	-	-	-	237,418	357,345
	2018	2019	2020	2021	2022
Wastes					
Solid Wastes (Ton)	498	1,577	1,269	1,608	2,313
Recycled Non-hazardous Wastes	124	1,249	1,163	1,449	2,103
Recycled Hazardous Wastes	115	153	36	105	128
Disposed Non-hazardous Wastes	0	0	0	0	0
Disposed Hazardous Wastes	1.00	1.00	0.60	0.50	0.90
	2018	2019	2020	2021	2022
Leaks and Spills					
Total Incidents (number)	0	0	0	0	0
Amount of Leaks and Spills (ton)	0	0	0	0	0
	2018	2019	2020	2021	2022
Number of Waste Management Training Participants	0	0	22,459	3,227	5,851
	2018	2019	2020	2021	2022
Environmental Management Expenditure (USD)	-	8,211,709	11,477,784	8,433,014	20,062,80

	2021	2022
Environmental Trainings		
Training Participants (person)	3,227	8,425
Company Employees	2,731	8,350
Contractor Employees	496	75
Training Duration (person*hour)	2,210	6,319
Company Employees	1,946	6,263
Contractor Employees	264	56

20	21	2022
Supplier Environmental Audits		
Number of Suppliers Subjected to Environmental Audit	52	42
Number of Suppliers Audited for the First Time	0	0
Number of Suppliers Failed in Audit	0	0
Number of Suppliers whose Contract was Terminated After the Audit	0	0
Number of Suppliers Given Developmen Program After the Audit	<sup>it</sup> 0	11
Number of Suppliers Completing the Development Program	0	11

#### Water Consumption per Person (m<sup>3</sup>/person)





#### **Environment Objectives**

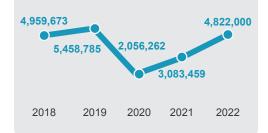
2022 Target	Related SDGs	2022 Performance	Realisation Level	2023 Target
No non-compliance with environmental regulation	12 another account to the second seco	100%	0	No non-compliance with environmental legislation
No environmental accidents, environmental emergencies or incidents	6 Indexes Variations 12 Interest Variations 13 Article Variations 13 Article Variations 13 Article Variations Variat	100%	0	No environmental accidents, environmental emergencies or incidents
Ensuring the continuity of TS EN ISO 14001 Environmental Management System Certificate	6 ENGLOW CONSISTENT 12 ENGRAPHING 13 JUNIT CONSISTENT 14 JUNIT CONSIS	100%	0	Ensuring the continuity of TS EN ISO 14001 Environmental Management System Certificate
Ensuring the continuity of Stage 2 certification in IEnvA Programme	6 millions 12 renovember All microsoft All microsoft All S annue COO	100%	0	Ensuring the continuity of Stage 2 certificate in IEnvA Programme
Reducing water consumption per employee by 5% compared to the previous year	6 Information 12 Consumption 13 Ambure	13.42 m³/person	0	Reducing water consumption per employee by 5% compared to the previous year
Providing environmental and waste management training to at least 3,800 employees	12 anoverni account 13 achuit COO	14,201 person	0	The 2022 target has been reached and a related target has not been set for 2023.
Participation in the UN Global Compact	5 TRANET S CONVERSION TO LEGARD S CONVERSION OF A CONVERSI	100%	0	The 2022 target has been reached and a related target has not been set for 2023.
NEW TARGET	9 Matrix Matrix P Matrix Law Conservation P Ma	NEW TARGET	NEW TARGET	Increasing and expanding the number of flights operated with the Green Class concept

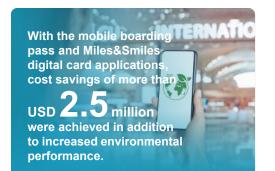


#### **Reducing Paper Consumption**

Paper materials are used in many processes in the operations of the Incorporation. The application with the highest performance in reducing paper material consumption is the Mobile Boarding Pass. In this way, both significant material savings and improvement in customer experience by saving time for passengers are achieved. In 2022, a significant increase was recorded with the Mobile Boarding Pass application, which prevented the printing of 4.8 million physical boarding passes. In addition, 6.4 million pieces of paper printing was prevented with Web check-in and SMS check-in applications.

#### Number of Mobile Boarding **Pass Applications**





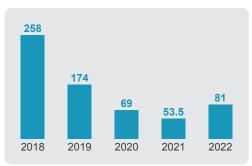
#### **Environmentally Friendly Material Preferences**

In the selection of materials to be used in the products and services, human health and environment are taken into consideration and responsible alternatives are preferred.

Since the previous periods, all travel and toy sets offered to passengers on board have been offered without the use of plastic packaging, thereby preventing significant plastic material consumption and waste generation. In this context, 46,693 tonnes of plastic consumption was prevented by preventing the consumption of plastic toys with all travel and toy set packaging offered to passengers in 2022.

Number of Products with Reduced Environmental Impact	2018	2019	2020	2021	2022
Forest Stewardship Council (FSC) Certified Toy Sets	2,268,000	1,647,700	0	323,925	677,809
Biodegradable and Compostable Headphone Packaging in accordance with TS EN 13432 Standard	37,698,863	37,790,212	9,872,042	16,722,548	30,307,783
TS EN 13432 Certified Biodegradable and Compostable Blanket Packaging	13,497,804	20,791,553	4,412,240	6,223,785	1,552,460
OEKO-TEX 100 Certified Passenger Blankets	1,509,204	2,181,610	572,215	1,144,145	1,552,460
Vegan Cosmetic Sets	-	-	-	63,471	1,313,320

#### Recycled Packaging Waste (tonnes)



A total of 13 cosmetic sets with vegan ingredients were offered to



passengers in 2022.



and compostable packages in 2022. thus preventing the consumption of single-use conventional plastics.







#### 27

# Responsible Catering

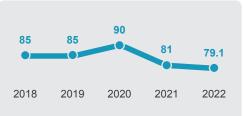
Since its foundation, the quality level achieved in Turkish Airlines in-flight catering constitutes a significant part of the Incorporation's increasing customer satisfaction and quality perception.



During the reporting period, as a result of the feedback and evaluations of millions of passengers, the Incorporation was honored with the World's Best Business Class Catering award at the Skytrax Awards and Europe's Best Food and Beverage Service award at the APEX Awards, which is the most strategic indicator of the Incorporation's success in this field. Considering the 71.8 million number of passengers we have reached in 2022, the operational size of in-flight catering services becomes apparent. These services are provided by Turkish DO&CO, a Turkish Airlines subsidiary.

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**Domestic Supply Ratio in Catering (%)** 



Airlines provided **3,959,384** individual meal services in line with the personal preferences of its passengers.

In 2022, Turkish





### **Fleet Modernization**

Turkish Airlines was established in 1933 with a fleet of five aircraft. Over the years, fleet modernization investments accelerated with a great leap forward in the 2000s, expanding the Turkish Airlines fleet both in terms of the number of aircraft and diversifying it in terms of aircraft classes.

As a result of these efforts, the Incorporation's fleet, which consisted of 65 aircraft at the beginning of 2004, increased by 6.1 times by the end of 2022. By the end of 2022, Turkish Airlines fleet reached 394 aircraft in total with 263 narrow-body, 110 wide-body aircraft and 21 cargo aircraft, with an average fleet age of 8.7 years. As a result of fleet modernization efforts, which were accelerated during the reporting period, the number of aircraft is targeted to reach 435 by the end of 2023.

Fleet Data	2018	2019	2020	2021	2022
Fleet average age	8.20	8.33	8.44	8.50	8.70
Total number of aircraft	332	350	363	370	394
Number of narrow-body aircraft	218	230	234	246	263
Number of wide-body aircraft	92	97	104	104	110
Number of cargo aircraft	22	23	25	20	21

#### **Noise Management**

Another positive impact of fleet modernization investments on the environmental performance of the Incorporation is in the area of reducing the acoustic impact of its operations in line with Turkish Airlines Environmental Policy.

For each new aircraft joining the fleet, a Noise Certificate is obtained from the Directorate General of Civil Aviation. The Noise Certificate is a certificate issued to an aircraft upon the assessment that it complies with the specified noise standard when maintained and operated in accordance with the relevant requirements and operational limits. Technical Directorate. Airworthiness Review Management carries out the necessary studies for each aircraft to obtain a Noise Certificate in accordance with national and international aviation requirements and monitors its updates. This certificate ensures compliance with landing and take-off noise level limits at airports.

In 2022, 16 aircraft with noise-reducing vortex generators were obtained. The low noise level of aircraft manufactured with new technologies also contributes to reducing the acoustic impact of operations. We aim to increase the noise reduction performance with the addition of current aircraft orders to the fleet.





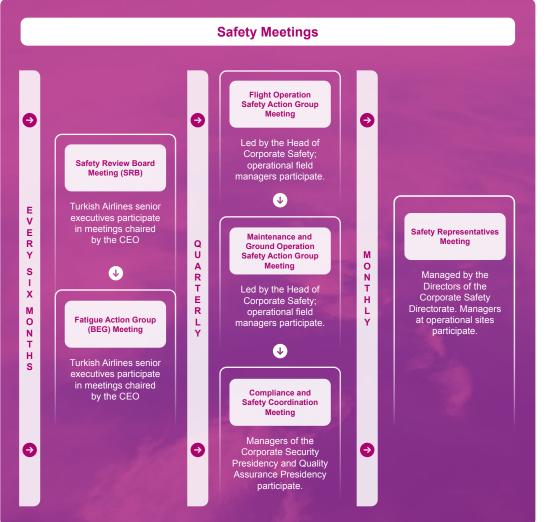
## Flight Safety and Security

Turkish Airlines' top priority is to continuously strengthen its reputation as a reliable operator for its stakeholders. To this end, the Incorporation takes measures to ensure the safety and security of its customers and business partners, business continuity, uninterrupted and uninterrupted operations and an unparalleled travel experience in all areas of its operations. It implements innovation and R&D activities in order to continuously improve processes, practices and service quality. Thus, it aims to continuously increase customer satisfaction.

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Flight safety and flight security is more than a priority for Turkish Airlines; it is a fundamental operating norm that cannot be ignored for any reason or under any circumstances. For this reason, flight safety and flight security are taken seriously in line with comprehensive corporate policies that go beyond legal requirements, with responsibilities extending from the highest level to all relevant operational units.







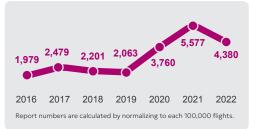
#### Safety Audit

	2018	2019	2020	2021	2022
Flight Safety Trainings					
Training Participants (person)	10,890	12,226	13,595	13,300	13,649
Cockpit Crew	932	1,476	2,620	936	2,175
Cabin Crew	2,634	2,992	2,528	2,432	5,884
Other Employees	7,324	7,758	8,447	9,932	5,590
Training Duration (person*hour)	16,463	27,144	15,472	22,503	17,062
Cockpit Crew	533	816	1,321	470	2,719
Cabin Crew	1,601	2,280	1,898	1,502	7,355
Other Employees	14,329	24,048	12,253	20,531	6,988
Flight Security Data					_
Number of Aircraft Accidents (number)	-	-	0	0	0
Sanctions for Non-Compliance with Flight Safety Regulations (number)	-	-	0	0	0
Number of Flight Security Reports (number)	2,201	2,063	3,760	5,577	4,380
SAFA Rate (%)	0.215	0.177	0.318	0.054	0.143
Flight Safety Activity Data	2020	2021	2022		
Number of Aircraft Accidents (Number)				0	0
Sanctions for Non-Compliance with Flight Safety Regula	imber)	0	0	0	

#### SAFA Ratio (%)



#### Reporting Performance







## **Employee Health** and Safety

One of the prerequisites for being a reliable operator is to ensure the health and safety of its employees, business partners, contractors and all stakeholders in its locations of operation. In this context, Turkish Airlines considers employee health and safety as a fundamental operational norm and an integral part of its corporate culture.

Accordingly, the Incorporation takes an approach beyond legal requirements when determining employee health and safety practices and implements exemplary practices on an international scale.

32

The Occupational Health and Safety Policy, which includes the **Occupational Health and Safety** (OHS) principles to be followed throughout Turkish Airlines operations, is made available to all relevant stakeholders on the corporate website. The management procedures established in the light of the policy principles are included in the Occupational Health and Safety Management Handbook. Collective bargaining agreements with trade unions include the basic elements of occupational health and safety and the conditions for compliance with applicable laws and regulations.

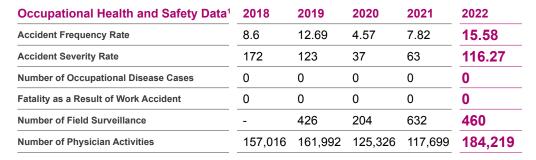
h

ISO 45001 Occupational Health and Safety Management System is referenced in Turkish Airlines operations. Certification of the standard is ensured through independent audits. Although Turkish Airlines' business units that carry out main operations and operating locations are included in the scope of the standard, when all operations are considered, the ratio of business units covered by ISO 45001 certification has reached 92% as of 2022.

In 2022, a total of 24.461 person\*hours of occupational health and

with the participation of

91,104 employees.



In previous years, Accident Frequency Rate and Accident Severity Rate data were calculated only within the scope of direct employment. In 2022, since the employees of contractor companies are also included in these data, the figures show a significant difference compared to previous years.

Number of OHS Trainings Participants		201	9 20	20	2021	2022	
THY Employees	-	14,951 20,		0,563 153,579		91,104	
Disaster and Emergency Preparedness Stud		2018	2019	2020	) 2021	2022	
Number of Disaster and Emergency Trainings			24	10	19	48	
Disaster and Emergency Training Number of Participants		273	400	145	215	1,428	
Number of Disaster and Emergency Drills		17	58	8	97	96	



safety training was organised

## Innovation, R&D And Digital Transformation

In terms of the size it has reached, Turkish Airlines operations touch the lives of millions of passengers and cargo customers every year. Even the slightest improvement in any process of this complex operation means making a difference in the lives of thousands of people. One of the indispensable objectives for the business units of the Incorporation is to create continuous innovation and further improve business processes. Turkish Airlines closely monitors many issues fuelled by technology, such as innovative products and services in customer experience, making operations more efficient, and developing new products and services that can generate revenue, and endeavours to implement them at an early stage. Within the scope of the open innovation strategy, various initiative programmes are implemented, and initiatives are closely monitored. Various studies and projects are being developed in the fields of contactless technologies, mobile and web applications and artificial intelligence, which have gained

In 2022, 3,548 ideas were entered into the Corporate Innovation Platform and the total number of suggestions reached 27,870. 648 of these ideas were implemented during the reporting period, and the total financial benefit from the system exceeded USD 250 million.

a lot of importance especially after the pandemic.

442 personnel took part in the R&D activities of the Incorporation and

**38** R&D activities were carried out.

In 2022.

33

In 2022, **3,548** ideas were entered into the Corporate Innovation Platform and the total number of suggestions reached **27,870**.

R&D Activity Data	2018	2019	2020	2021	2022
Number of R&D employees	666	752	719	829	442
R&D expenditure (USD)	11,800,612	7,691,853	8,857,844	4,254,596	8,611,503
Number of R&D projects	33	49	40	20	92
Number of new products and services developed	53	10	6	6	5

Suggestion System Data	2018	2019	2020	2021	2022
Number of employees sharing suggestions (person)	6,268	4,316	7,144	507	1,560
Number of employee suggestions	16,716	21,995	24,259	25,129	3,548
Number of implemented suggestions	659	1,100	1,225	1,227	713
Financial benefits from employee suggestions (USD million)	55	132	163	185	250







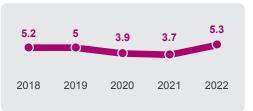
## Customer Satisfaction

One of the most important values built by Turkish Airlines over the years of its operations is high-level customer experience and loyalty. The fundamental principles followed in the activities carried out for establishing these values are determined by the <u>Customer Satisfaction Policy</u> and <u>Quality Policy</u> documents.

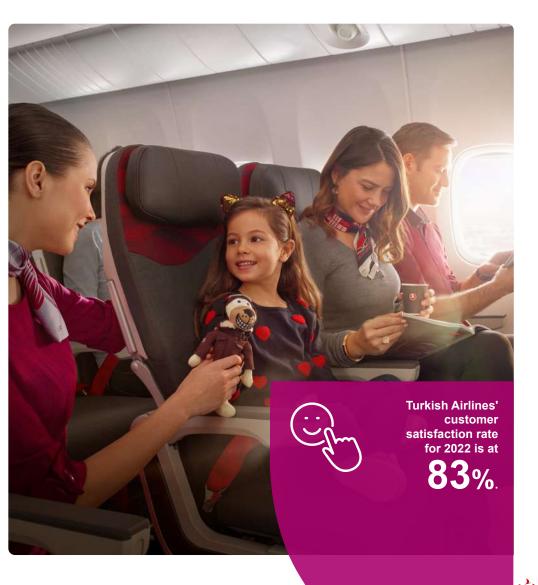


When all operations of the Incorporation are evaluated, the ratio of business units within the scope of ISO 9001 certification has reached 92% as of 2022. On the other hand, our Incorporation, which has ISO 10002 Customer Satisfaction Quality Management System Standard certification since 2015, differentiated itself from many of its competitors in the world with this certificate and achieved the success of being one of the two airlines holding this certificate in the Star Alliance, which includes 26 airlines.

#### Baggage Irregularity Rate (%)







## Fair Employer

As in its 90-year journey, the most significant strength of Turkish Airlines in its future success journey will be its young, dynamic and qualified workforce. For this reason, the Incorporation offers a working environment where development and team spirit are supported and diversity and equality are observed.

Turkish Airlines' ability to bring together differences into a whole and direct them towards a common goal plays an important role in its success. Accordingly, the corporate culture emphasises diversity and inclusiveness as a core value. The fundamental principles set out in the Turkish Airlines Code of Business Conduct and Ethics Manual demonstrate that the Incorporation is an employer that prioritises equal opportunities and values diversity and different cultures.

In 2022, the number of female engineers increased by 30% and reached 221.



### In 2022, 3,000 employees

benefited from nursery and elderly care assistance.

employees benefited from the right to parttime work after childbirth and

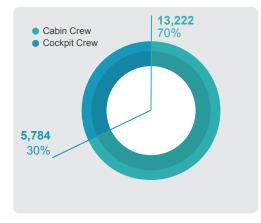
employees benefited

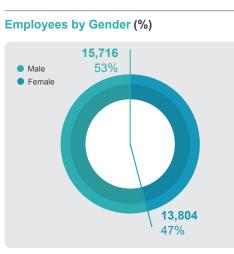
from the right to partial work.



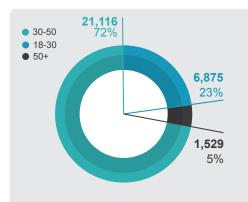


Flight Personnel by Category (%)





**Employees by Age Group (%)** 



Ο 0 0 As of 2022, Turkish Airlines has a total of 29,520 employees. Of these, 784 5 are cockpit employees, are cabin crew and 514 are non-flight personnel.





Employee Demographics	2018	2019	2020	2021	2022
Total Workforce (number)	30,874	34,222	33,583	33,191	37,379
Direct Employment	26,739	29,491	28,668	27,532	29,520
Female	12,332	13,579	13,129	12,682	13,804
Male	14,407	15,912	15,539	14,850	15,716
Contractor Employees	4,135	4,731	4,915	5,659	7,859
Female	941	1,096	1,099	1,167	1,214
Male	3,194	3,635	3,816	4,492	6,645
Employee Category (number)					
Cockpit Crew	5,213	5,839	5,756	5,561	5,784
Female	241	297	303	296	318
Male	4,972	5,542	5,453	5,265	5,466
Cabin Crew	10,513	12,247	12,281	12,033	13,222
Female	7,161	8,243	8,105	7,910	8,770
Male	3,352	4,004	4,176	4,123	4,452
Technical Team - Engineer	413	402	368	353	471
Female	170	177	169	171	221
Male	243	225	199	182	250
Technical Team - Technician	172	203	189	152	173
Female	11	11	11	1	2
Male	161	192	178	151	171
Non-flight Personnel	11,013	11,405	10,631	9,938	10,514
Female	4,930	5,039	4,721	4,476	4,715
Male	6,083	6,366	5910	5,462	5,799
Total Workforce by Contract Type (number)					
Indefinite Term Employment Contract	25,472	28,214	27,580	26,519	28,404
Female	11,756	12,999	12,640	12,232	13,359
Male	13,716	15,215	14,940	14,287	15,045
Temporary Employment Contract	1,118	1,167	1,081	1,007	866
Female	505	519	483	444	319
Male	613	648	598	563	547
Part-time Employees	149	110	7	6	250
Total Workforce by Education Level (number)					
Primary education	45	74	68	48	42
High school	4,443	5,024	4,486	3,997	4,193
University and Above	22,251	24,393	24,114	23,487	25,285
Total Workforce by Age Groups					
18-30	9,914	10,658	8,632	6,456	6,875
30-50	15,590	17,484	18,713	19,705	21,116
50+	1,235	1,349	1,323	1,371	1,529
Senior Management Structure (number)					
Female	54	61	59	56	66
18-30	1	1	0	0	0
30-50	50	56	56	49	61
50+	3	4	3	7	5
Male	553	564	560	528	506
18-30	29	13	7	1	1
30-50	487	510	514	487	467
50+	37	41	39	40	38

Employee Demographics	2018	2019	2020	2021	2022
Mid-level Management Structure (number)					
Female	482	516	496	498	506
18-30	33	34	25	21	11
30-50	428	459	448	453	468
50+	21	23	23	24	27
Male	1,041	1,117	1,066	1,095	1,085
18-30	141	101	66	53	46
30-50	855	963	945	987	963
50+	45	53	55	55	76
New Recruits (number)					
Female	1.437	1.781	118	131	1,521
Male	2,463	2,161	416	235	1,389
Employees Left (number)	,				,
Female	473	535	569	578	399
Male		654	789	924	523
Furn Over (%)	4.8%	4.2%	4.6%	5.3%	3.2%
Employees with Disabilities		1.2 /0	1.070	0.070	0.270
Female	56	60	60	57	56
Male	161	175	170	155	150
Number of Disabled Employees in Manager Position	20	24	22	23	26
Vorkforce Under the Collective Bargaining Agreement (number)	23,015	25,513	25,054	24,307	22,594
Ratio of Female Candidates Applying for a Job (%)	41%	61%	0%	0%	58%
Ratio of Female Candidates in Recruitment Interviews (%)	38%	62%	0%	0%	64%
Shortlisting Rate of Candidates in the New Employment Process (%)	8%	5%	0%	0%	5%
<b>o</b>	29%		0%	0%	
Female		57%			58%
Male	71%	43%	0%	0%	42%
Ratio of Women Promoted During the Year (%)					
Domestic	50%	49%	33%	34%	23%
Abroad Ratio of Female Employees Promoted to the Management Position for the First Time (%)	0%	0%	0%	19%	20%
Domestic	50%	50%	40%	17%	37%
Abroad	0%	0%	0%	10%	83%
Ratio of Female Employees in Income Generating Positions (%)	8%	8%	7%	6%	0.7%
13					
Ratio of Female Employees in Engineering Positions (%)	42%	45%	47%	49%	47%
Social Performance	2018	2019	2020	2021	2022
lumber of Employees on Maternity/Paternity Leave					
Female	1,063	907	823	628	119
Male	791	811	531	603	177
Jumber of Employees Returning from Maternity/Paternity Leave					
Female	906	756	677	550	198
Male	792	815	534	598	177
Iumber of Employees Who Haven't Left Work for the Last 12 Nonths After Returning from Maternity Leave					
Female		739	623	532	197
Male	794	815	517	588	177
Iumber of Female Employees Benefiting from the Right to Work art-Time After Childbirth	2	4	0	7	6
Number of Female Employees Benefiting from Partial	32	54	61	52	121

### **Talent Management**

In the aviation industry, the human element is among the important factors affecting service quality. For this reason, Turkish Airlines considers talent management as a whole and aims to be a preferred workplace for the most qualified professionals in the industry. To this end, the Incorporation implements practices to keep employees' motivation and creativity alive and to support individual and professional development. The Incorporation aims to create a strong employee experience, increase employee loyalty and thus maintain the continuity of the gualified labour force through its work life practices.

Turkish Airlines follows an HR Development Journey Programme designed differently according to employee categories in order to plan the career journeys of its employees and develop their professional and personal skills and competencies in line with this planning. Within the scope of the programme, employees are first subjected to a position-based measurement and evaluation application through a system with a content specific to the Incorporation in cooperation with experts and academicians. In the light of the feedback received from these assessments, the process of competency determination and development programme creation is initiated. Following this, the required trainings are planned.

thousand

During the year,

was allocated for training

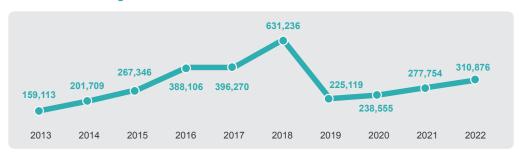
USD

activities.

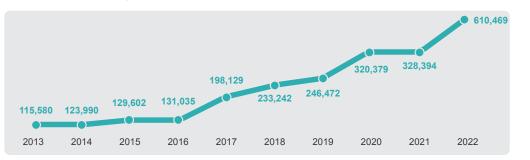
#### Flight Training Centre Equipment

Cockpit Trainings	Cabin Trainings				
	•3 Mock-Ups				
•24 Full Flight Simulators (FFS)	•1 Fire Fighting Training Device (RFFT)				
•7 Flight Training Devices (FTD)	<ul> <li>6 Door and Window Training Devices</li> </ul>				
•2 B737/A320/A330 VSIM classrooms with a	•B777, B787 and A320 Evacuation Slide				
capacity of 16X2 = 32 students	<ul> <li>4 Emergency Station Zones</li> </ul>				
•6 Computer Based Training (CBT) classes	•Ditching Pool				
	<ul> <li>6 Cabin Service Training Devices (CST)</li> </ul>				





#### **Cockpit Crew Training Hours**



Tomorroy On-Board

In 2022, 310,876 hours of training was provided for cabin crew and 0.469 hours of training was provided

for cockpit crew at the Flight **Training Centre.** 

38

#### National and International Accreditations and Partnerships

General Directorate of Civil Aviation Authorized Training Institution

- Passenger Services
- Load Control and Communication
- Ramp
- Cargo and Mail
  - Oversight and Management
  - Safety Management System
  - Aviation Security
  - ► Dangerous Goods

Language Proficiency Service Provider and Authorized Exam Center

Aviation Training Course Authorized by the Ministry of National Education

IATA Regional Training Partner Certificate

IATA Certificate of Accreditation for Air Transportation of Dangerous Goods Training

IATA Competency Based Training and Assessment Provider Accreditation (IATA CBTA Provider Certificate of Accreditation)



Employee Trainings- Participants (number)	2018	2019	2020	2021	2022
Ground/Non-flight Personne	87,412	135,831	153,519	136,023	200,342
Cockpit Crew	17,135	54,930	54,968	49,088	86,973
Cabin Crew	81,675	219,449	150,150	193,037	181,281

	2018	2019	2020	2021	2022
Number of Business Interruptions Due to Strike (number)	0	0	0	0	0
Number of Non-Working Days Due to Strike (number)	0	0	0	0	0



#### Flight Training Centre Accreditations

- $\rightarrow$  Flight Simulation Training Device (EASA FSTD) Organisation accreditation
- $\rightarrow$  DGCA approved ATO Training accreditation
- → ATO and Cabin Crew Basic Training authorisations issued by Civil Aviation Authorities such as Iraq, Kuwait, Libya, Rwanda, Tajikistan
- $\rightarrow$  DGCA Approved Cabin Crew Basic Training Organisation accreditation
- → Authorisation to provide practical training with DGCA Approved CEET certificate
- → European Resuscitation Council approved Defibrillator Training accreditation
- $\rightarrow$  Ministry of Health approved First Aid Basic, Update and OED Training accreditation
- $\rightarrow$  Ministry of Health approved First Aid Trainer's Training accreditation
- $\rightarrow$  Hazardous Material Rules Training authorisation
- $\rightarrow$  Accreditation to provide "Training of Trainer" approved by the Ministry of National Education
- $\rightarrow$  Accreditation to provide DGCA approved Aircraft Security Training
- $\rightarrow$  Accreditation to provide DGCA approved SAFA Ramp Auditor Training
- $\rightarrow$  Accreditation to provide DGCA approved Flight Dispatcher Training





## GHG Verification Statement

	TÛ	RK STANDARDLARI ENSTİTÜSÜ					
		LLANCE AND INSPECTION CEN					
GREI	ENHOUSE	GAS VERIFICATION STATEMEN	NT				
		178 178 1000 1000 1					
Certificate Number Report Number Date of Verification Statement Company Title Company Address	SER.006.20 24.08.2023 Türk Hava Y	SER.006.2023/B00029 SER.006.2023/R00020 24.08.2023 Türk Hava Yolları Anonim Ortaklığı Yeşilköy Atatürk Hava Limanı Bakırköy/Istanbul					
Purpose of Verification	Verifying the Greenhouse Gas Statement of the organization which is prepared according to TS EN ISO 14064-1:2019 standard for the period 01.01.2022 - 31.12.2022 and verifying Total Greenhouse Gas Emissions which are in accordance with the requirements of the TS EN ISO 14064-3:2019 standard in "Reasonable Assurance Level".						
verification Methodology		Gas Statement Verification is carried out in O 14064-3:2019 standard.	accordance with requirement				
Fechniques of Verification	chniques of Verification Greenhouse gas informatic evaluated by document rev the evidence of Greenhous		use gas data / information are n methods and on the basis of				
erification Criteria	TS EN ISO 14064-1:2019						
/erification Period Base Year	01.01.2022 - 31.12.2022 2022						
Organizational Boundaries	See the anne	ex of verification statement.					
ypes of Greenhouse Gases	CO2, CH4, N	20, HFC, SF <sub>6</sub>					
erified GHG Emissions and	Category 1 Direct Emissions 18.170.029,62 tons CO2e						
Removals	Category 2	Energy Indirect Emissions (Location based)	64.219,33 tons CO2e				
	Category 2 Category 3 Category 4	Energy Indirect Emissions (Market based) Indirect Emissions due to Transportation	56.406,69 tons CO <sub>2</sub> e 51.778,53 tons CO <sub>2</sub> e 3.993.555,21 tons CO <sub>2</sub> e				
	Category 5		703.509,98 tons CO2e				
	Category 6 Other Indirect Emissions Emissions due to Biomass Combustion GHG Removals Carbon Credits		325,25 tons CO <sub>2</sub> e 2.297 tons CO <sub>2</sub> e (ETSWAP),				
evel of Assurance /erification Opinion	Reasonable Verified as \$	Assurance Level atisfactory Deputy Director of Environmental					
scuracy	and validity of th	uye/QRKodDogrulama7code=88A445 You can gue te document.	y this address to check the				
* Yüzüncü * Tel: (031)	rel Bulvan Ceval 2)- 592 51 35 Fa	Dündar Caddesi 1236. Sokak No.1 Yenimahalle/AN x: (0312)- 592 51 85 e-posta: cevreselgozetim@tse	IKARA .org.tr				

## TÜRK STANDARDLARI ENSTITÜSÜ

#### HEAD OF SURVEILLANCE AND INSPECTION CENTER

#### GREENHOUSE GAS VERIFICATION STATEMENT

Organizational Boundaries;	
Ankara Esenboğa Havalimanı İstasyonu	Ankara Satış Müdürlüğü, Ankara İstasyon Müdürlüğü, Ankara Kargo Müdürlüğü, Anadolujet Başkanlığı
Atatürk Havalimanı İstasyonu	Atatürk Havalimanı II. Bakım Össü Binası, Atatürk Havalimanı Eski Kargo Binası, Eğitim Başkanlığı Binası, EBİ Binası, Eğitim Başkanlığı Ek Bina, Florya Inaan Kaynalıkları Degrefendirme Merkezi, Florya Uçuş Eğitim Merkezi, Florya Veri Merkezi, Harbiye Satış Müdürlüğü, İkram Binası
İstanbul Havalimanı İstasyonu	İstanbul Havalimanı B Bölgesi Enerji Yönetim Binası, İstanbul Havalimanı C Bölgesi Enerji Yönetim Binası, İstanbul Havalimanı De-icing Istasyon Binası, Istanbul Havalimanı Kargo Intzi Sevk Össü, Istanbul Havalimanı Mega Kargo, İstanbul Havalimanı Operation Center Binası, İstanbul Havalimanı Uçak İçi Örünler Deposu, İstanbul Havalimanı ULD Kontrol Merkezi, İstanbul Havalimanı Terminal Binası, Kadıkdıy Satış Muddırüğü, KS servis Alam, Levazım Depo Binası, Simülatör Tesisi, Taksim Satış Ofisi, Teknik Yemekhane Binası, THY Genel Yönetim Binası, THY Teknoloji Binası,
İzmir Adnan Menderes Havalimanı İstasyonu	İzmir Satış Müdürlüğü, İzmir Kargo Müdürlüğü ve İzmir İstasyon Müdürlüğü





https://basvuru.tse.org.tr/uye/QRKodDogrulama?code=88A4AF You can query this address to check the accuracy and validity of the document.

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25.01.11.FR.010/02.06.2017-7



## **Contacts**

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**Reporting Advisor and Design:** 



www.kiymetiharbiye.com

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