

SUSTAINABILITY REPORT 2022



stasses the se



mabengineering $oldsymbol{B}$



The cover design features a tree with deep roots and a canopy of leaves, surrounded by people of diverse backgrounds and ages, both employees and communities.

The tree symbolises sustainability, with its roots representing the foundation of sustainable practices and its leaves representing the positive impact on the environment and society.

The people represent the collective effort needed to achieve sustainability, highlighting the importance of collaboration and inclusivity. The aircraft represents Malaysia Aviation Group's overarching efforts in achieving net zero emissions, and the solar panels (renewable energy) form part of the Group's strategy.

TABLE OF CONTENTS

- **3 About This Report**
- **5 Organisational Profile**
- 7 Our Sustainability Ambitions
- 8 Message from the Group Managing Director
- 9 Our Sustainability Journey
- **13 Materiality Analysis**
- 14 Stakeholder Engagement
- 15 Environment-Tackling Climate Change

 Progressing Towards Net Zero
 Scope 1, Scope 2 and Scopre 3
 Optimising Our Air and Ground Operations
 Managing Our Energy Use
 Sustainable Procurement
 Managing Waste and Water
 Reducing Noise
 Sustaining Biodiversity

amal 📎

firefly

WMASwings

malaysia 🕑

- 32 Social-Empowering Our Stakeholders Encouraging A Healthy Work-Life Balance Developing Talent Ensuring The Wellbeing of Our People Ensuring The Best Customer Experience Digitalising Our Processes Engaging The Community
- 48 Governance-Building Trust Corporate Governance at MAG Good Governance Practices for Sustainability A Multi-Level Approach to Safety and Security Upholding Human Rights Corporate Governance for Sustainability

mabengineering $oldsymbol{B}$

55 Appendix GRI Content Index IATA ESG Metrics Assurance Statement Abbreviations and Acronyms

mabacademy 🗿

nskargo $oldsymbol{B}$

AeroDarat



"We have made a commitment with our oneworld partners to achieve net zero carbon emissions by 2050."

- Izham Ismail Group Managing Director, Malaysia Aviation Group

ABOUT THIS REPORT GRI 2-2, 2-3, 2-5

This Sustainability Report provides an update on progress made to deliver on the Sustainability Blueprint of Malaysia Aviation Group (MAG, or the Group) in the areas of Environmental, Social and Governance (ESG).

This report details the activities of the Group and its subsidiaries, and does not include vendors or third parties. Information has been prepared in accordance with IATA ESG Metrics, with reference to the Global Reporting Initiatives (GRI) Standards and United Nations Sustainable Development Goals (UNSDGs).

Data in this Report is for the year 2022 (1 January 2022 - 31 December 2022), unless otherwise stated. Information shared by each Business Unit was collected

by our Sustainability Office and consolidated into this Report. Where required, an external consultant was engaged to provide reasonable assurance.

Disclaimer in respect of forward-looking statements

While care has been taken in collecting and processing the data in this Report, information published should not be used for forward-looking analysis. Terms expressing beliefs, expectations, estimations, and forecasts should not be used as a basis for preparation of other reports and/or proposals.







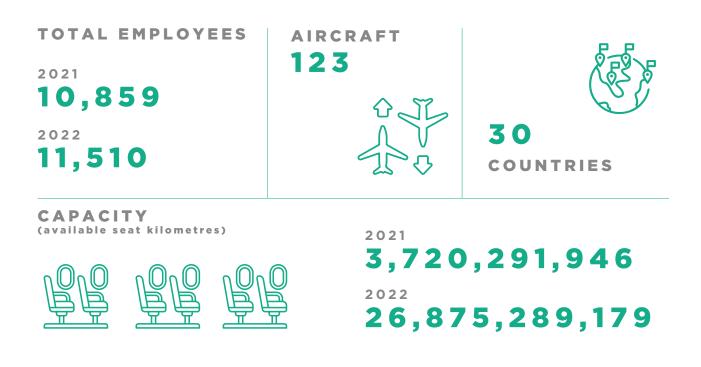
Malaysia Aviation Group (MAG) is a global aviation organisation comprising three focused business portfolios of Airlines, Loyalty and Travel Solutions (LTS) and Aviation Services.

The current Airlines business portfolio serves the global, domestic, and segmented markets through Malaysia Airlines, the national carrier of Malaysia; Firefly and MASwings, regional airlines serving Malaysian communities; and AMAL by Malaysia Airlines, the leading one-stop pilgrimage travel solutions centre.

MAG's Aviation Services business includes maintenance, repair and overhaul (MRO), cargo, ground handling, and training services through MAB Engineering; MASKargo, a one-stop cargo logistics and terminal operations service provider; Aerodarat Services, a one-stop ground handling solutions provider; and MAB Academy, the Aviation and Hospitality Centre of Excellence.

The Loyalty and Travel Solutions (LTS) business portfolio is focused on providing end-to-end travel solutions and loyalty programmes that complement MAG's strengths and expertise in its other portfolios. The LTS portfolio comprises Journify, an integrated travel and lifestyle digital platform; Enrich, Malaysia Airlines' award-winning Travel & Lifestyle Loyalty Programme; and MHholidays and Firefly Holidays, MAG's tour operating business units.

With these clear business portfolios, MAG is set to become Asia's Leading Travel and Aviation Services Group, delivering highly customised end-to-end travel solutions.





ORGANISATIONAL PROFILE

GRI 2-1, 2-6



Malaysia Airlines Berhad is Malaysia's national carrier offering premium services and superior connectivity to 1000 destinations across 150 countries.

fireflu

Firefly operates out of the Penang and Subang hubs, connecting various destinations within Malaysia, Thailand, Singapore, and Indonesia.

WMASwings

MASwings is the Pulse of Borneo. As East Malaysia's first commuter airline, it caters to the air travel needs of the Sabah and Sarawak population, providing affordable fares and convenient schedules for travel within and between the two states.



amal

AeroDarat

cargo terminal operations.

maskargo 🕑

AeroDarat provides ground handling services, including ramp and cargo, in Kuala Lumpur International Airport (KLIA) and 15 other airports across Malaysia.





mabacademy 步

MAS Academy offers quality education, hospitality, and services training for the MAG as well as other international airlines and organisations.

AMAL by Malaysia Airlines, the Hajj and Umrah pilgrimage arm of Malaysia Airlines, offers scheduled and chartered flights for "ibadah" to Jeddah and Madinah, with a global presence in key markets such as Indonesia, China, Pakistan, and parts of Africa.

Anrich

Enrich is the frequent flyer programme for Malaysia Airlines, offering our guests access to privileges and lifestyle rewards. Enrich miles can be redeemed for flights with Malaysia Airlines or oneworld member airlines and partner airlines, or for other exclusive travel and lifestyle privileges.



Journify is a mobile application with everything to help our guests plan their entire travel itinerary, with travel tips, shopping and delivery options, and a seamless connection with Enrich to enable users to accumulate Enrich points.

MHholidays

MHholidays is Malaysia Airlines' integrated travel portal, designed to offer a seamless booking and travel experience, all with just a point and click.



OUR PURPOSE

Building Trust, Realising Connections, Impacting Lives



OUR CULTURE BELIEFS



People are Our True North



Sustainability is Our Mission



Customer is Our Centre of Gravity



Digital is Our Universe



Safety & Security are Our DNA



Integrity is Our Commitment



OUR SUSTAINABILITY AMBITIONS

GRI 2-22, 413-1

MAG aspires to evolve into a stronger and more sustainable company by prioritising decarbonisation and integrating sustainability into every facet of our business, ultimately benefiting all our stakeholders.

SUSTAINABILITY GOALS



- 1. To promote socio-economic development
- 2. To achieve net zero carbon emissions by 2050

Our Sustainability Blueprint focuses on the following ESG elements:



MAG's Sustainability Ambitions are focused on these UN SDGs:



Achieve gender equality and empower all women and girls



Ensure access to affordable, reliable, sustainable and modern energy for all



Ensure sustainable consumption and production patterns



Take urgent actions to combat climate change and its impacts



MESSAGE FROM THE GROUP MANAGING DIRECTOR

GRI 2-5, 2-22

It gives me great pleasure to present to you the 2022 Sustainability Report of the Malaysia Aviation Group (MAG). As a global aviation organisation, our unwavering dedication lies in forging a *Sustainable Tomorrow*, where we actively contribute to the well-being of the communities we serve globally and prioritise environmental stewardship within our operational sphere.

We recognise that the aviation industry significantly impacts our environment, and as an organisation, we place sustainability at the forefront of everything we do as a business. Our focus is to minimise our carbon footprint and environmental impact by adopting innovative technologies and processes to minimise our carbon emissions. To support this, we have invested in sustainable aviation fuels (SAF), aircraft technologies and renewable energy sources.

Our initiatives over the past year underline our commitment to realising the United Nations Sustainable Development Goals (SDGs), in which our focus area covers SDG5 (Gender Equality), SDG7 (Affordable and Clean Energy), SDG12 (Responsible Consumption and Production) and SDG13 (Climate Action). We conducted a carbon accounting exercise to serve as the foundation upon which we will build detailed action plans and clearly defined targets and deliverables. We have since operated 19 domestic and international cargo and passenger flights powered by SAF through our group of aviation companies. In addition, we have implemented a Group-wide waste management programme that focuses on reducing, reusing and recycling waste generated from our operations.

Our commitment to sustainability is not limited to environmental initiatives. We are committed to upholding ethical business practices and promoting human rights across our operations. We have implemented policies and procedures that ensure fair and equal treatment of our employees, suppliers and customers. We also encourage diversity and inclusion within our organisation, and actively engage with our communities to support social development and upliftment. We have partnered with NGOs to contribute to the betterment of both local and global communities.

In our ongoing sustainability journey, we acknowledge the significance of collaboration and partnerships. We proactively involve ourselves with industry stakeholders, regulators and NGOs to exchange best practices and foster sustainability advancements throughout the aviation industry.

We aspire for our past, present and future sustainability endeavours to profoundly benefit our business, society and environment. Our steadfast commitment to driving sustainable practices across our operations remains unwavering, and we will persistently embrace innovation and invest in sustainable solutions that yield positive impacts, ensuring a *Sustainable Tomorrow*.

Izham Ismail

Group Managing Director Malaysia Aviation Group Our focus is to reduce our carbon footprint







Jul 2020 Established the Sustainability Working Committee

OUR SUSTAINABILITY JOURNEY GRI 2-6

We endeavour to operate in a sustainable manner throughout all aspects of our business. Our Sustainability Blueprint, formulated in 2019, is the foundation of our efforts.

Aug 2022

Completed

Greenhouse

Gases (GHG)

accounting

project for MAG

Jul 2022

Formed a collaboration

with WWF-Malaysia

for social and

environmental project

donations

Aug 2020

Incorporated Sustainability elements into the MAG People Engagment Survey (PES) survey elements

Nov 2020

Officially integrated Sustainability into the Corporate Scorecard

Apr 2021

Officially launched the MAG Sustainability Blueprint

Oct 2021

Signed an MOU with Petronas Research & Petronas Dagangan Berhad for the development of Sustainable Aviation Fuel (SAF)

Dec 2021

MAG's inaugural SAF flight

Established the Women@MAG framework



SUSTAINABILITY **ACHIEVEMENTS 2022**

GRI 2-5, 2-6

ENVIROMENTAL SOCIAL GOVERNANCE



GOVERNANCE

Signed an MOU with Stop Human Trafficking (SHUT) to develop and conduct FLY-HT victim identification of human trafficking module training for our employees



GOVERNANCE

Established the Sustainability Office at Group level



ENVIRONMENT

20% of waste avoidance to landfills from recycling programs in Kuala Lumpur



ENVIRONMENT

17 SAF-powered 'Awareness Flights' by our subsidiaries (MAB, FY and MW)



GOVERNANCE

Awarded the Sustainable Brand Awards 2022 by Business Media International (BMI) & Affin Bank



GOVERNANCE

Published MAG's First Sustainability Report (2020-2021)

2.779

Completed

project for MAG





Collaborated with local talents in upcycling projects



Officially established Women@MAG to empower women employees



ENVIRONMENT & SOCIAL

Collaborated with WWF-Malaysia on passenger donations for an environmental project



KEY HIGHLIGHTS IN 2022



22.29 million kg of CO_2 saved

from January to December 2022 through our fuel-



400

tonnes of waste recycled equivalent to 8,846

seedlings grown over



152,785 kg of CO₂ saved each year since 2019

by switching 4,190 bulbs to LED



13%

less carbon emissions from staff commute by implementing Work



63% less paper used

= 2,700 trees saved



25% female representation in senior posiitions

22% increase in whistle blower reports



ZERO cases of human or wildlife trafficking

Boeing 737 Max BOEING

25

acquired under the fleet modernisation programme



Airbus A330 Neo acquired under the fleet renewal programme

Die -



OUR SDG Commitments

GRI 2-22

At MAG, we acknowledge the significance of integrating sustainability into our business practices, as it not only fosters responsible stewardship but also enhances long-term value for our stakeholders. We are committed to aligning the following United Nations Sustainable Development Goals (SDGs) across all our operations:



OUR UNSDGs:

ACHIEVE GENDER EQUALITY AND EMPOWER WOMEN AND GIRLS

MAG aims to increase the representation of women in senior leadership roles and underrepresented areas, as part of our commitment to gender equality. This objective aligns with IATA's goal of attaining a 25% female representation by 2025.



ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

MAG is committed to implementing infrastructure and facilities for waste management, energy efficiency, and water conservation in support of SDG 7, which aims to ensure access to affordable, reliable, sustainable, and modern energy.



ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

MAG aims to reduce single-use plastics (SUP) for our in-flight operations by 50% and achieve a 50% recycling rate by 2030.



TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

MAG targets to achieve net-zero carbon emissions by 2050 through the implementation of a fuel efficiency programme aimed at improving operations and reducing fuel consumption. The Group is collaborating with partners to develop Sustainable Aviation Fuels (SAF) and implement market-based measures to achieve this target.



MATERIALITY ASSESSMENT GRI 3-1, 3-2, 3-3

MAG conducted its first Materiality Assessment in 2022 to gather insights from all key stakeholders and assess our environmental, social, and governance impacts.

To ensure that everyone's views were heard, MAG engaged with a diverse range of stakeholder groups including investors (Khazanah Nasional Berhad), board members, top management, the Civil Aviation Authority of Malaysia (CAAM), suppliers. employees. corporate clients, customers, Oneworld, and financial institutions. Additionally, we sought input from key internal specialists across various departments to assess the environmental, social, and governance impacts and potential risks and opportunities in the near to longterm goal.

MAG broadened the scope of its Materiality Assessment to include it's subsidiary operations to obtain a comprehensive view of the Group's sustainability related challenges and opportunities.

The Group is conducting a revised Materiality Assessment in FY2023 to better evaluate our business strategy and ensure sustainable growth. The revised Assessment will consider the continuous integration of material topics in MAG's daily operations throughout all levels of the organisation.

"With a view of achieving sustainable growth, the Company is undergoing a revised Materiality Assessment to evaluate its business strategy."

MATERIAL ISSUES FOR MAG



	High
1	Managing GHG emissions
2	Employee health and safety
3	Energy management practices
4	Aircraft safety
5	Risk management
6	Code of conduct
7	Board structure and management
	Medium
8	Employee engagement & talent development
9	Climate change related strategies
0	Waste management practices
11	Disclosures
12	Human rights
13	Water management practices
4	Labour practices and D&I
15	Customer welfare and management
16	Supplier relationship management
	Low
17	Data privacy
18	Community welfare
9	Noise reduction
0	Biodiversity preservation
21	Brand management
22	Supply chain management



STAKEHOLDER ENGAGEMENT

GRI 2-28, 2-29

We ensure regular and timely communication with our stakeholders through dedicated channels to keep them wellinformed and gain a better understanding of their needs and expectations. Their input is crucial to the development of our organisational strategies and sustainability initiatives.

MAG's stakeholders span across a broad range of groups:-

- Investors
- Board members and senior management
- Regulatory authorities
- Suppliers and vendors
- Airline associations
- Customers
- Employees
- Financial institutions
- Local communities

Stakeholder	Engagement	Frequency	Scope of Interest	Mode of Engagement	Related to SDGs
Shareholders	 General Meetings Briefings for Board of Directors 	Throughout the year	Business and Group related matters	Face-to-face sessionsVirtual	
Government & Regulators	Business and regulatory meetingsBusiness events	• Throughout the year	 Business, regulatory and compliance issues impacting aviation or tourism sector 	Face-to-face sessionsVirtual	12 prosterior 2000 Horizontal 17 noncensor 2000 Horizontal 17 noncensor 2000 Horizontal 2000 Horizonta
Employees	 Employee Handbook Townhalls Performance reviews Internal and departmental meetings Regular communications (PULSEdaily) 	 Onboarding Session Quarterly Periodic Weekly 	 Policies, processes, and procedures Business updates Employee Welfare, Wellbeing & Development 	 Face-to-face sessions Virtual Email & Newsletter 	3 DOUBLEHER DOUBLEHER 16 KILLS AND KILLS NOT AND
Customers	 Promotion & Marketing Focus groups Customer satisfaction surveys 	ContinuousPeriodic	 Customer feedback and satisfaction Brand reputation Product innovation Service improvement 	 Corporate website Face-to-face sessions Email Going Places Magazine 	9 huttin huvuta Antonanzincine
Suppliers	 Vendor registration Performance evaluation Contract renewal discussions Quality assurance audit 	 Onboarding session Periodic When necessary 	 Risk Analysis & ESG requirements Terms & Conditions and costs Service-level Agreement (SLA) & KPI Contract renewal Clarification sessions between Business Unit and Vendor 	Face-to-face meetingsVirtual	8 ECCU WORK GRAVE COMME CARANT 16 And Address Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwarzen Schwar
Communities	 Support through CSR activities, non- profit organisation and NGO partners 	 Once / twice a year or when necessary 	Community engagement, assistance and development	 CSR activities by MH Rangers Sponsorships & collaborations 	8 ECCH WORK AND ECONDE CONFE



ENVIRONMENT

Tackling Climate Change

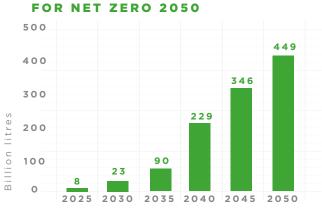
- 15 Progressing Towards Net Zero
- **15** Scope 1, Scope 2 and Scopre 3
- 17 Optimising Our Air and Ground Operations
- 21 Managing Our Energy Use
- 22 Sustainable Procurement
- 25 Managing Waste and Water
- 29 Reducing Noise
- 31 Sustaining Biodiversity

PROGRESSING TOWARDS NET ZERO

GRI 2-23, 2-24, 2-27, 201-2

MAG is committed to decarbonisation, setting a target to progress to net zero greenhouse gas (GHG) emissions by 2050 in line with the global aspiration.

One large step towards this goal is changing our fuel source. Sustainable aviation fuel (SAF) currently comprises less than 0.1% of all jet fuel used in the aviation industry. The International Air Transport Association (IATA) estimates that SAF could support up to 65% of emissions reduction, but this can only be achieved by reducing production costs for SAF and accelerating its adoption. At the same time, each nation plays its own vital role in formulating its own decarbonising initiatives and establishing supporting infrastructures to support our global goal.



EXPECTED SAF REQUIRED

Source: IATA fact sheet, 'Net zero 2050: Sustainable Aviation Fuels'.



SCOPE 1

GRI 201-2

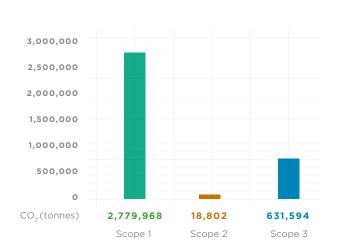
While we acknowledge that it will not be possible for the industry to eliminate emissions at source, we have implemented a group-wide strategy that also includes other ways to decarbonise and contribute to the global net zero goal, while lowering our own costs over the long term.

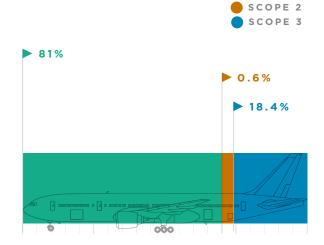
MALAYSIA AVIATION GROUP

CARBON EMISSIONS

GRI 302-4, 305-1, 305-2, 305-4

We have implemented fuel efficiency programmes for each of our business units. By addressing each matter at its source, we can monitor our progress at group level, analyse the results, and further enhance our initiatives.





Emissions have increased from previous years as the business recovers to 2019 levels

Scope 1 emissions

2,779,968 tCo₂ **81%** of total

Scope 3 emissions

631,594 tco, 18.4% of total Total emissions for MAG in 2022

3,430,363tCo₂

Scope 2 emissions

18,802 tco₂ **0.6%** of total

Aircraft emissions (scope 1) is the biggest source of emissions for MAG

Note: MAG's Scope 3 emissions have been reported for the first time in our 2022 sustainability report. A thorough assessment of all 15 categories of Scope 3 emissions, as defined by the GHG Protocol, was carried out in the previous years. MAG has identified and reported on emissions from 6 relevant categories for 2022. MAG will continue to refine and improve its Scope 3 calculations, and as the business evolves and grows, additional relevant categories may be included in the future. Any significant restatements will be provided in future reports with explanations provided.



OPTIMISING OUR AIR AND GROUND OPERATIONS

GRI 302-4

Our flight operations programme emphasises best practices in fuel efficiency, which includes reducing acceleration altitude, using an RNP-AR GPS-guided approach, reducing drag landing, adopting a continuous descent approach, landing with idle reverse thrust, engine-out taxi in (EOTI) and using LIDO Live Flight Plans.



Planning is a critical component in achieving efficiency. The GE Digital Fuel Insight System, EFB implementation and LIDO Live flight plans allows the team to optimise takeoff weight without compromising safety. The team can also identify further opportunities to save fuel using data analytics. A monthly data analysis on Planned Fuel Burn vs Actual Fuel Burn is shared to the pilots to enable the team to generate optimised flight plans.

What occurs on the ground is equally significant to what transpires during the flight. An effective aircraft maintenance programme serves to increase performance and fuel efficiency. Regular inspections, prompt structural repairs, regular cleaning, and replacement of worn-out parts will optimise aircraft performance by reducing drag, enhancing fuel efficiency. Using lightweight paint for the exterior of our aircraft reduces weight.

We have streamlined our ground operations to reduce turnaround time to lower fuel consumption and emissions using external power and conditioned air sources in place of the Auxiliary Power Units (APU). To help reduce take-off weight, we have optimised the amount of potable water carried during the flight. To further enhance our ground initiatives, we are currently exploring the use of electric vehicles (EV) as part of AeroDarat Services' (ADS) fleet development programme, with plans to start deploying the EVs in 2023.





RENEWING OUR FLEET

GRI 302-4, 302-5

In 2022, we began modernising our fleet to align with our environmental targets, starting with the acquisition of the 20 Airbus A330neo and 25 Boeing 737-800. The new aircraft are expected to consume 11% to 14% less fuel than the current fleet, significantly reducing carbon emissions and improving fuel efficiency. As costs for maintaining older aircrafts tend to be higher, our costs will be reduced in this area. We are expecting our first delivery of 25 Boeing 737-800 aircraft in 2023.



USING FUEL EFFICIENT AIRCRAFT

GRI 302-4, 302-5

The Airbus A350-900 is the star of our current fleet, developed for sustainability and equipped with features designed to minimise its impact on the environment. The A350's intelligent airframe and aerodynamics significantly lower aircraft weight and contribute towards substantially reducing fuel burn and CO₂ emissions. In comparison to previous generations of aircraft that are similar in size, it consumes 11% less fuel. As well as being the quietest long-haul model ever built, its avionics systems further reduce emissions of nitrogen oxides and other pollutants. However, actual emission reduction will vary based on other external factors. "Compared with previous generations of similarsized aircraft, Airbus A350-900 burns 11% less fuel"



SUSTAINABLE AVIATION FUEL (SAF)

GRI 302-4 302-5



SAF is produced from sustainable biological and non-biological feedstocks such as waste and residues and has the same chemical composition as traditional jet fuel. It can be a direct replacement or blended with traditional jet fuel in varying degrees without requiring any modifications to engines or airport infrastructure, with the benefit of lowering emissions. Over its lifecycle, SAF reduces GHG emissions by up to 80% compared with fossil jet fuel.

We see SAF to be a mid-to-long term business commitment to address industry and environmental needs. The SAF market is relatively new and still evolving, and the pace of uptake will depend on a variety of factors, including the availability of SAF, the price of conventional jet fuel, and government policies. Supply is still limited in this region, so we have committed to working with local and regional partners to accelerate SAF production. In doing so, SAF will be more accessible and



Fuel is delivered to airport and 4 into wing



Traditional fuel is blended with 3 sustainable aviation fuel to make it suitable for aircraft use affordable for all airlines, leveling the playing field for aviation players.

SAF is a very attractive alternative to conventional jet fuel as it alleviates a major risk for the aviation industry fluctuations in crude oil price. Unlike fossil fuels, production for SAF can be done virtually anywhere, enabling a more diverse supply. Having a broad base of feedstocks and a wider range of technologies in their production ensures we are not dependent on a single source for fuel production.

SAF can also provide economic benefits to parts of the world that have large amounts of marginal or unviable land for food crops, but are suitable for growing SAF crops, or which have other sources of feedstock such as municipal waste.

For more information on SAF, you may refer to our General Industry Overview of SAF, published in conjunction with our 2021 Sustainability Report (page 63).



SAE reduces GHG emissions by up to

80% compared with fossil jet fuel

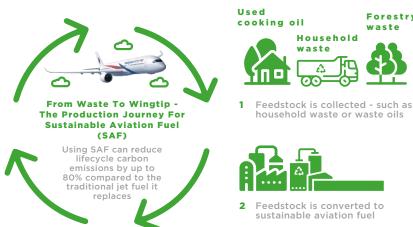
Click here to read more



A

Forestry

waste





SAF FLIGHTS IN 2022

GRI 302-4, 302-5, 305-5

We are proud to be the first Malaysian carrier to have both our passenger and cargo operations powered by SAF. Our first SAF passenger flight operated on 5th June 2022, from Kuala Lumpur to Singapore, coinciding with World Environment Day. MAG has conducted 17 domestic and international passenger SAF flights across our group of aviation companies in 2022, effectively **reducing our emissions by 66%**.

MAG is working closely with various industry partners to ensure supply of SAF across our network as we will explore to make SAF the cleaner and more viable energy option for our flights in the future.



malaysia 🕑



5 Jun Kuala Lumpur (KUL) to Singapore (SIN) *First passenger flight*



8 Sept

Sultan Abdul Aziz Shah Airport (SZB) to Penang (PEN) *First domestic passenger flight*

20 Sept

Sultan Abdul Aziz Shah Airport (SZB) to Singapore Seletar Airport (XSP)

30 Nov

Sultan Abdul Aziz Shah Airport (SZB) to Penang (PEN)

Sultan Abdul Aziz Shah Airport (SZB) to Singapore Seletar Airport (XSP) in partnership with Touch n' Go Digital

"We are proud to be the first Malaysian carrier to have both our passenger and cargo operations powered by SAF"



*W***MASwings**



1 Dec Kota Kinabalu - Labuan - Miri *First domestic passenger flight across Borneo*





MANAGING OUR ENERGY USE

GRI 302-5

Energy transition is of utmost importance to MAG from both the environmental and operational perspectives. Our stance is what is good for the environment and global aviation industry will also benefit our organisation.

The benefits of a successful transition to efficient and renewable energy use are manifold and multi-faceted. It aligns with the National Energy Policy 2022-2040 (Dasar Tenaga Negara, or DTN), while also reducing our carbon footprint as a global aviation player. The cost benefits of the energy transition will translate into long term and sustainable growth for MAG.

Our buildings play a key role in supporting our operations. Their design fulfils operating requirements, performance standards, technical requirements, and planning restrictions. While it is essential to have a reliable control system in place, we also ensure all our people are mindful in their consumption of energy.

As part of energy management for our facilities, we continuously assess our consumption levels and look for opportunities to embed green energy options into our infrastructure.

UTILISING RENEWABLE ENERGY

GRI 302-5

We started our first solar programme in 2014 in partnership with the Sustainable Development Authority Malaysia (SEDA). Since we began the programme, we have been able to avoid 5,000 metric tonnes of carbon dioxide annually and reached the 100% utilisation rate of allowable solar energy in the South Support Zone. We are also exploring other areas to utilise this source.

Our solar PV panels at the Kuala Lumpur International Airport have a combined capacity of 2.210 megawatt peak (MWp), capable of generating about 2.86 gigawatt hours (GWh) of clean energy per year.

USING ENERGY EFFICIENTLY

GRI 302-5

We began switching to LED lighting in 2019, starting with 1,221 bulbs at our MASKargo



OUR INITIATIVES IN MANAGING ENERGY

Utilising Renewable Energy

Using Energy Efficiently replacing lighting with energy efficient LED





TOTAL CO2 AVOIDANCE 5,000 tCO,



TOTAL LED INSTALLED





SUSTAINABLE PROCUREMENT GRI 2-23, 2-24, 2-27

Our efforts in integrating ESG elements into our operations extend to our sourcing practices. We have assessed our procurement process and identified areas to reduce the environmental impact of our supply chain.

BENEFITS OF A SUSTAINABLE PROCUREMENT PROCESS



Reduced Risk Suppliers with bad practices can affect our reputation and create a financial blowback.

Cost Efficient Sustainable suppliers reduce our costs by reducing their own through lower waste and energy costs.



and Revenue Growth

Customers are more aware of sustainability and will opt for airlines that make an active effort in the fight against climate change.



A sustainable procurement plan is one way to protect against potential shortages caused by changes in social, economic, and environmental factors.



OUR SUSTAINABLE PROCUREMENT BLUEPRINT 2022 - 2030

GRI 2-23, 2-24, 2-27

MAG's Sustainable Procurement Blueprint outlines our strategy to make our supply chain completely sustainable by 2030. It clearly defines our commitment in delivering sustainable outcomes through our procurement activities and their application. The blueprint outlines the guidelines on the implementation of sustainability throughout the life cycle of the procurement process. The responsibility for the implementation is shared among our Board of Directors, Senior Management, Business Units, and Finance and Procurement teams, overseen by a Steering Committee.



GOING BEYOND COMPLIANCE

GRI 2-23, 2-24, 2-27

INTENTIONS	LABOUR STANDARDS		FOOTDDINT	ETHICAL SOURCING		SOURCE FICIENCY	SUPPLIER DIVERSITY	SKILL & TALENT DEVELOPMENT
PHASE 1: Reframe ESG (2022 - 2024)		PHASE 2: Institutionalise ESG (2025 - 2027)			PHASE 3: Embedding ESG organisation and Ecosystem wide (2028 - 2030)			
 Endorseme Life Cycle A economy st selected pro- Procuremen Incorporate Procuremen Introduce a technical sc Identify pilo categories t based on in Accounting Support ver sustainable 	(2022 - 2024) Procurement Policy nt Assessment / Circular tudy - to determine the oduct categories e sustainability measures in				I	 Build a network of suppliers and specialists/ experts to support suppliers in their transition Achieve ISO 20400 and ISO 14001 certification Incentive structure for SME's/ entrepreneurs to venture into sustainable solutions and innovations Accelerate MAG led vendor development programme Full adoption of Supplier Code of Conduct as a pre-condition to qualification (with Self Assessment Question full scoring Long-term partnerships to factor investments in key sustainability focus areas 		

ENABLERS: Build a procurement team that leverages AI and intelligent procurement tools to improve forecasting and spend analytics

The Ultimate 6 Goals by Year 2030

The outcome of achieving the 6 goals is to transform to a new MAG procurement process, policies and decisions that balances sustainability, profitability and stakeholder's requirements.

THE 3 KEY PHASES TO ACHIEVE OUR ULTIMATE GOALS BY YEAR 2030

Reframe ESG in MAG procurement practices - create awareness and educate vendors and stakeholders on MAG's Sustainable Procurement Policy

PHASE

2

PHASE

PHASE

Reinforcing and building the Sustainability Standard to MAG Procurement practice

Shift MAG to the Sustainability Standard to MAG Procurement practice Vendors 100% compliance with MAG Supplier Code of Conduct

> GOALS YEAR 2030

> > To anchor 3 Suppliers under Vendor Development Program



MAG has identified the risks and challenges in our current supply chain and initiated measures to mitigate them.



Higher Costs

The current costs involved in securing our supplies can be reduced by focusing on target products and highlighting the positive impacts of green financing to our suppliers as an incentive to go green.



Loss of Current Suppliers

Economic circumstances have led to the loss of certain suppliers, a reduction in their capabilities or diminished means to finance sustainability initiatives. We have provided a grace period for compliance to help them in their own sustainability journeys.



Longer Supplier Turnaround Time (TAT)

Barring circumstances beyond their control, our suppliers can leverage on technology to enhance their efficiencies and reduce delivery times. Concurrently, we can request for them to implement certain measures to enhance their processes and improve management.



Support for new suppliers

For some suppliers, the journey to compliance can seem intimidating. We actively support our Bumiputera SMEs vendors through our Vendor Development Programme.

The blueprint forms a feedback loop for MAG to enhance our initiatives and engagement methods. Moving forward, we will continue to collect and analyse data to help us identify and prioritise opportunities to optimise costs. By establishing metrics to measure the progress of these optimisation measures, further improvement can be achieved.





MANAGING WASTE AND WATER

GRI 301-1, 303-1, 306-2

According to IATA, airlines generate around 20-25% of cabin waste that mainly consist of untouched food.

As passenger numbers increase post pandemic, the volume of waste could double in the next 10 years. Airlines around the world have recognized the importance of reducing, reusing, and recycling waste. From analyzing passenger consumption data and using compostable cups and dishes, to donating non-perishable food items and introducing on-board recycling of bottles and cans, airlines are committed to preventing cabin waste from ending up in landfills. "Solid waste is a global issue that could contribute to a series of global geo-economic and socioenvironmental issues in the coming years"

MANAGING WASTE

GRI 310-1, 301-2, 306-4

In our daily operations, we generate waste in three (3) categories: ground waste, inflight waste, and scheduled waste. We have set a clear target of 50% reduction in waste to landfill for the mid-term, and a long-term goal of zero waste to landfill by 2030. To put this into action and jumpstart our participation in the nation's circular economy, we have outlined a Waste Circulatory Framework with defined processes for each stage.



WASTE MANAGED IN 2022

SCHEDULED WASTE 60 tonnes Oil waste undergo cradle to cradle process by prescribed premises before final disposal

MID-TERM WASTE	L C W	
AMBITIONS		
50% waste to	Ze	

LONG-TERM WASTE AMBITIONS

50% waste to landfill reduction Zero waste to landfill by 2050





GROUND INITIATIVES

GRI 301-1, 301-2, 301-3, 306-2, 413-1

Reduce, Re-use, and Recycle: We collect and recycle a variety of materials, including office waste (paper, cardboard, beverage containers) and scrap materials from support operations. In 2022, we recycled 20% of our total waste generated by our Kuala Lumpur operations. We collaborated with Alam Flora in creating awareness among our staff and vendors on the 3Rs.

In addition to these efforts, our staff participated in beach cleaning exercises with the local communities in East Malaysia as part of our CSR and environmental programmes.

Concerns regarding the community and environment have led MASwings to focus on sustainability initiatives to support the communities in East Malaysia. MASwings has implemented sustainability initiatives in Sabah, Sarawak, and Federal Territory Labuan, providing us the opportunity to participate in society and effect positive change.



"In 2022, we recycled 20% of our total waste generated in Kuala Lumpur opeations"



Beach Cleaning 2022

In collaboration with Jawatankuasa Kebajikan Islam Malaysia Airlines BKI (JKIM), with the participation of Polis Diraja Malaysia, the Malaysian Nature Society, the University College Foundation of Sabah, MASB, and in partnership with Green Buddy

536 kg



Recycling 2023

Recycling drives to collect all office waste to be sent to recycling centres



Tree planting 2023

Rosary Hill, St Peter Cleaver's Church, Ranau and around the MAG Administration Building, Kota Kinabalu

2,301 kg



SUSTAINABILITY AND HERITAGE

MAG's dedication to sustainability and preserving our cultural heritage is reflected in our recent collaborations with local artisans and groups to repurpose materials that would otherwise go to waste. These upcycled materials are used to create quality artisanal products to show that sustainability can indeed be stylish and functional.

The THESELINA collection features beautifully crafted luxury bags made from upcycled materials selected from Malaysia Airlines' aircraft leather seats, belt and buckles, crew uniforms, and more. The bags are uniquely named after IATA destination codes within our network.



The Kenny Loh x MAG sustainable Tomorrow Kasut Manik collection showcases heritage craftsmanship in artisanal footwear using upcycled materials from Malaysia Airlines' trademark kebaya. The designs for the limited-edition shoes draw inspiration from iconic traditional Malaysian items such as Nyonya kueh and proudly display the rich Peranakan culture. Each pair is 100% handcrafted by local artisans.

MAG also collaborated with local fashion designers Melinda Looi and Gillian Hung, founder of the Hung Innovation Awards, on raising awareness of sustainability in the fashion industry.



INFLIGHT INITIATIVES

GRI 301-1, 306-4

At MAG, we take pride in providing our guests with the best possible customer experience during their flights. As a part of our commitment to showcasing Malaysian Hospitality, we are also mindful of our impact on the environment. Therefore, we strive to make our flights as sustainable as possible, while still maintaining the high standards of Malaysian Hospitality that we are known for.

In 2022, we replaced plastic-based stirrers with wooden ones and started using cutlery made from biodegradable PLA (bio-sourced plastic). We are currently in the process of replacing our PLA cutlery with wood-based ones by the second quarter of 2023. This phased switch not only helps to reduce in-flight waste but also contributes to long-term sustainability. The wood is sourced from fast-growing trees, making it a sustainable source. The lighter weight of the material also reduces the overall weight of the aircraft, increasing fuel efficiency.



INFLIGHT PLASTIC AVOIDED IN 2022



ΨΟ

Economy Class Service

- Reusable plastic tray and equipment used for flights above 3 hours
- Plastic trays and equipment used on flights exceeding 3 hours are washed for reuse, reducing in-flight waste to landfill

Business Class Service

- Porcelain tableware, stainless steel cutleries and service linen are washed for reuse in subsequent flights, reducing in-flight waste to landfill
- Broken and rejected items are collected by a recycler i.e. aluminium, metal, and plastic materials

Paper Meal Boxes for Domestic & Regional Sector

- Paper packaging is used for meals
- Wooden cutlery is used instead of conventional plastic, reducing plastic waste to landfill



Tetra-Pak Recycling

 Tetra-Pak packaging is segregated by the cabin crew to be collected by an approved recycler



SCHEDULED WASTE INITIATIVES

GRI 2-23, 2-24, 2-27

To enhance our compliance with the Environmental Quality Act 1974, we conducted regular inspections, training sessions, and implemented additional enforcement measures throughout 2022. The effort we place in ensuring MAG's operations are fully compliant with laws and regulations shows our commitment to minimising our environmental impact. These efforts are continuous, and our stakeholders are engaged throughout the process in helping us identify areas of improvement. The Group Sustainability Office oversees and conducts compliance exercises to ensure our processes comply with section 33A of EQA 1974 from end to end. These involves station inspections and site visits. As per section 49A, we appoint competent persons to conduct all EQA 1974 activities. In addition, we have regular training sessions to ensure our people are up to date with chemical handling and waste management.

MANAGING WATER

GRI 303-1, 303-5

Water is an essential natural resource in our daily operations, both on the ground and in flight. Non-potable water is used in our ground operations for cleaning aircraft and engines, and in flight for plumbing and washing. Potable water is carried on flights for consumption. We strive for efficient water management to minimise our environmental impact by reducing effluent discharge and water consumption while also lowering our carbon footprint.

INFLIGHT WATER

Most commercial airlines fill the aircraft water tank to full capacity prior to each flight regardless of how much water is used during the flight. Generally, for every 1kg extra weight added to the aircraft, the aircraft will burn an additional 0.04kg of fuel, depending on various factors.

This is an area we have identified to reduce water consumption and increase fuel efficiency, while reducing our carbon footprint during the flight. By controlling the standard water uplift volume, the aircraft weight is lighter, reducing the fuel burn. As an example, by reducing 140kg of unnecessary water, the airline will save 5.5kg of fuel per hour per flight, corresponding to over 27kg of carbon emissions saved per hour.

We have introduced a water management policy and regularly review the guidelines for equipment operators on the water quantity to be uplifted, based on aircraft type and operating sector. In our homebase of KLIA, the implementation has been consistent with 97% compliance rate. (Non-compliance is mostly due to technical reasons).

AIRCRAFT AND ENGINE WASH

Over time, dirt accumulates on the aircraft engine's fan and compressor airfoils, consequently reducing engine efficiency. Regardless of the processor equipment used, the engine compressor water wash procedures will allow some recovery of the Exhaust Gas Temperature (EGT) margin lost due to compressor degradation, prolonging engine life in the long run. As the engine specific fuel consumption (SFC) will degrade with the reduction of EGT margin, compressor wash may have a beneficial effect on SFC. However, the relation between the EGT margin recovery and the SFC may be complex and depends on several parameters, including the specific engine model.

Normal fuel flow reduction from a compressor wash for the A350 is around 0.5% to 1%. For the A330, recorded reduction is 0.1%, translating to 631 tonnes of carbon dioxide reduction for our fleet (2017 – 2019).

To further our water management efforts, MAG is in the midst of completing the installation of a rainwater harvesting system in our hangar to serve our cleaning purposes.



Consistently implemented at 97% compliance level. Average of **429 flights** with water savings per month or **5,148 flights** per annum (ex-KLIA only)







REDUCING NOISE

Aircraft noise can be disturbing to those who live around airports, and as such, the industry has taken the responsibility of reducing noise generated from operations as much as possible.

Researchers have studied noise reduction, looking at factors such as the amount of air travelling through the engines, the size of fan blades in an engine, where an engine is located on an aircraft body and even how many flaps help control wing shape.

Noise reduction measures extend to the flight route and take-offs and landings. Air traffic management has developed flight tracks that avoid the most densely populated areas. In recent years, improvements in navigation performance have enabled aircraft to follow precisely designated tracks. In parallel with aircraft noise reduction, land-use planning is an essential part of minimising the number of people exposed to aircraft noise.

As part of the Department of Occupational Safety and Health (DOSH) requirement, MAG conducts an annual self-assesmentfor the Systematic Occupational Health Enhancement Level Programme (SoHELP).



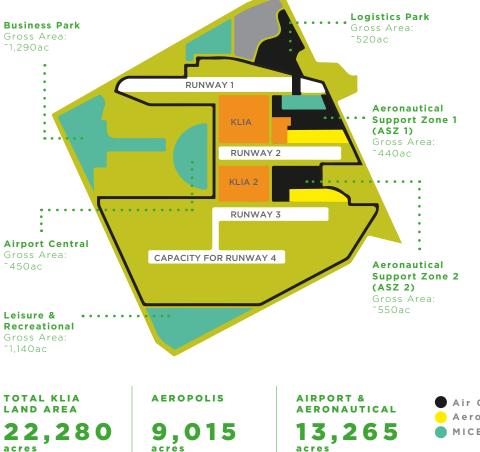
85%

of our aircraft are certified under Chapter 4 (ICAO Noise standard, Annex 16)

15%

of our aircraft are certified under Chapter 14 (ICAO Noise standard, Annex 16)

KLIA - AEROPOLIS



CERTIFICATION

MAG conducts an annual self-assessment for the DOSH Systematic Occupational Health Enhancement Level Programme (SoHELP)

MAG complies to the noise abatement ruling at airports such as London, Sydney and Narita

BENEFITS

Reducing noise pollution from airport operations contributes to the wellbeing and health of the surrounding communities

Air Cargo & Logistics
 Aerospace & Aviation
 MICE & Leisure



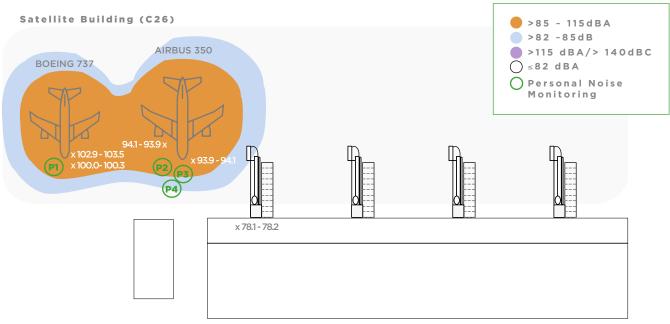
GRI 403-7

GRI 403-2

We ensure compliance with noise abatement rules at the various international airports we serve. Our fleet modernisation exercise also serves to reduce noise pollution. The Airbus 350 has proven to be 6dB quieter on departure, and 3dB quieter compared to other wide body aircrafts in a study done at London Heathrow airport (CAP 1733, 2019). Similarly, the incoming Airbus 330neo reduces noise pollution by 60% compared with the older generation fleet. The airside, where aircraft parking bays and taxi in and out paths are located, is the noisiest area of an airport. Other areas where noise hazards are present are the baggage conveyor sorting area and the engineering hangar's wheels and brake section.

These areas were identified based on the noise mapping exercise conducted at various Malaysian airports as per the Occupational Safety Health Act and Regulations 1994. "The Airbus 350 has proven to be 6dB quieter on departure, and 3dB quieter compared to other wide body aircrafts in a study done at London Heathrow airport (CAP 1733, 2019)"

Noise Risk Assessment Report



Source: Noise Rish Assesment Report

The strategies to control noise hazards are at various levels of control - **Elimination** (future engines); **Substitution** (from noisy turbojet to turbofan engines); **Isolation barriers** at Hangar areas; **Administrative** (work hours depending on decibels of exposure) and **Personal Protective Equipment** (earmuffs). Constant enforcement is conducted by the Occupational Safety Health inspectors to ensure compliance. Our implementation of noise reduction measures has been audited by the Department of Occupational Safety and Heath in the Systematic Occupational Health Enhancement Level Programme, with ratings for Engineering & Maintenance (E&M) and AeroDarat Services (ADS) for the years 2019-2021.



SUSTAINING BIODIVERSITY

GRI 304-1, 304-2, 304-3, 403-2

BIRD STRIKES

A bird strike is a collision between a bird and an aircraft which is in flight, or on a takeoff or landing roll, and can include other animals and insects. It is a common yet significant threat to the industry, as bird strikes can cause damage to aircraft, necessitating airlines to bear the costs for rectification work. It is classified as an Aviation Sector hazard under the Wildlife Hazard Management Program (WHM). Bird strikes that cause damage are a Mandatory Occurrence Report (MOR) with the CAAM.

Air operators work hand in hand with Airport Management to mitigate the risk of bird strikes. MAG's WHM committee meets every two months, or when required, to address the issue. Periodic meetings are held with the Runway Safety teams.

We work closely with airport operators in mitigating bird strikes and other hazards through initiatives such as grass maintenance, placing reflector disks in high-occurrence areas, and placing sound breakers. The WHM also engages researchers studying insect habitats and patterns and deploys control teams to move stray animals to safety from hazard areas.



Data based on total of 70,000 flights in 2022 compared to 23,000 flights in 2021

ENVIRONMENTAL CONSERVATION

GRI 304-3, 413-1



WITH WWF-MALAYSIA

In 2022, Malaysia Airlines collaborated with WWF-Malaysia to support the organisation's forest conservation efforts in Batang Ai, Sarawak. We involved our passengers on all flights through donations made during the booking process, the full proceeds of which will be donated to WWF-

The project involves planting gaharu, also known as agarwood, and other indigenous trees to provide the local communities with an additional source of income while helping to protect and enhance precious forest land for the beloved orangutan.

Empowering Our Stakeholders

Encouraging A Healthy Work-Life Balance Developing Talent Ensuring The Wellbeing of Our People Ensuring The Best Customer Experience Digitalising Our Processes Engaging The Community

ENCOURAGING A HEALTHY Work-life Balance

GRI 2-23, 2-24, 2-27, 403-6

36

40

42

The pandemic changed the way organisations operate, placing remote and flexible work arrangements in the spotlight as viable alternatives.

Even as restrictions were lifted, we continued to support our employees in non-operational or support functions who prefer working remotely. We introduced MAG's **Way of Working** as a guidebook to encourage productivity and efficiency, regardless of where our employees choose to work from. Embracing the new way of working includes accommodating flexible work arrangements (FWA), pursuant to the amendments to the Employment Act 1955, which allows employees to request FWA from their employer. Although this is not mandatory, our employees can apply for FWA based on staggered hours, guided by a **Flexible Working Policy.**

MASwings

Go Green

"Embracing the new way of working includes accommodating for flexible work arrangements (FWA)"



Supporting Policies

GRI 2-23, 2-24, 2-27, 201-3, 401-3

MATERNITY AND PATERNITY LEAVE

In accordance with the revisions made to the Employment Act 1955, female staff members are entitled to 98 days of fully paid maternity leave, while our male employees are granted 7 days of fully paid paternity leave. This provision is implemented to prioritise the overall well-being of our employees, encompassing their physical, social, and mental health.

RESOURCES FOR MENTAL HEALTH

The organisation collaborates with NALURI to provide mental health support to employees, including support for managing remote work.

PAID TIME OFF

To prioritise the welfare of our employees, we have implemented a policy that grants them 21 days of annual leave. This provision allows them to rejuvenate and enjoy quality time with their families and loved ones. By ensuring adequate rest, our employees are able to enhance their energy levels, resulting in heightened productivity and job satisfaction. This stands in contrast to some other airlines that offer a range of 12 to 18 annual leave days, dependent on the duration of service.







₩ NALURI provides mental health support



2 1 days

EMPLOYEE SAFETY

GRI 403-1, 403-2, 403-4, 403-5, 403-7, 403-9

At MAG, our commitment to people and safety is the heart of our sustainability efforts. We are proud to report our progress in this area and remain committed to our goal of providing a safe and secure work environment for our 11,000 talents.

We believe that our employees are our True North, and their safety and security are embedded in our DNA. As a company, we are governed by the Civil Aviation Regulations 2016 and the Occupational Safety and Health Act and Regulations 1994. Hence, our Safety Policy integrates aviation safety, occupational safety, health, and security, and it is our first business principle.

MAG is committed to advocating for non-punitive close-loop open reporting by all employees and third-party service providers to prevent incidents, accidents, and property damage.

In 2022, our workforce submitted 15,283 open reports, a 50% increase compared to pre-COVID-19 figures in 2019. Our key performance indicator for employee safety is the Loss Time Injury Frequency Rate (LTIFR). Our LTIFR for 2022 was 1.64, far below the aviation industry average of 6.6. This low figure reflects our commitment to safety and security.

For us, safety is more than just a policy - it is a culture. Thanks to our robust safety awareness programme, we are proud to report zero fatalities in 2022. Although this is an achievement, our efforts will continue to constantly improve in this aspect. Our Corporate Safety team is developing an application-based software to allow safety reporting through handheld devices. This approach will make safety reporting more accessible and streamlined for our employees.

Another key safety strategy at MAG is enhancing workforce Safety Culture. We believe that a strong safety culture is the foundation of a safe and secure workplace. We continue to invest in training and development programmes that promote safety awareness and cultivate a safety-focused mindset among our employees. open reports
15,283
submitted



1.64 cases

compared to average Aviation Industry, 6.6 LTIFR.

FATALITIES
O cases





DIVERSITY AND INCLUSION

GRI 405-1

MAG has attained a commendable 33% female representation within our organization. This significant milestone demonstrates our unwavering commitment to promoting and empowering women in the industry, bolstering their representation and influence.

Furthermore, MAG is actively engaged in a comprehensive strategic effort to align ourselves with IATA's 25by25 initiative.

Employee Category	м	F	Total
Top Management	16	3	19
Senior Management	84	76	160
Middle Management	304	229	533
Executive	696	703	1,399
Non-Executive	3,217	1,269	4,486
Management Pilot	36		37
Pilot Group	1,176	3 9	1,215
Cabin Crew	834	1,378	2,212
Tech Group-Engineer	400	27	427
Tech Group-Technician	972	5 0	1,022
*as at Dec 2022	7,735	3,775	11,510

EMPOWERING WOMEN AT MAG

GRI 404-3

Women at MAG (W@M) is a membership platform created specifically for female employees with the goal of driving organisational performance by promoting diversity, equity, and inclusivity in the workplace. Launched in March 2022, the platform aims to attract and retain talent, build trust and commitment, promote innovation, and build a community based on mutual respect and cohesiveness.

PHASE 1 2022 Laying the Foundation	PHASE 2 2023 Strengthening the Foundation
 Official launch of W@M Create platform for membership recruitment and engagement Create proper governance and framework for running the social group Create awareness and association with like minded groups 	 Develop and implement initiatives/ policies that will cement the cultural/ mindset shift to meet long term objectives Develop and implement policies/ systems/infrastructure to provide support/assist the single parent/B40 Develop and implement initiatives to develop/attact female talent Increase recognition and membership
 Initial setup 100% funding by MAG 10% female staff 50% closure of violation incidences 	 Establish self funding mechanism to reduce MAG's contribution to 70% 15% female staff





Kayuhan Silaturrahim with MAG Cycling group



EMPOWERING WOMEN AT MAG GRI 413-1

Women's safety in the workplace is a serious concern, with sexual harassment as a significant issue that must be addressed. In November 2022, W@M launched the SHAME (Sexual Harassment Must End) campaign as part or MAG's zero-tolerance stance on sexual harassment. This campaign serves as the cornerstone for future anti-sexual harassment initiatives for the organisation.



INITIATIVES BY WOMEN AT MAG: SCRAP TO FAB PROJECT

GRI 2-23, 2-24, 2-27, 301-2

The Scrap to Fab project was initiated in 2020 during the height of the pandemic. It is aimed at reducing waste and empowering women from lower income communities through a collaboration with Komuniti Tukang Jahit (KTJ). The project collects engineering waste to be upcycled into marketable, income-generating products.

In 2022, Women@MAG, a group of dedicated female volunteers, with the support of MAB Engineering and Group Sustainability, joined forces with the Scrap to Fab project. The joint project successfully produced and sold 150 upcycled bags, and another 400 bags are currently in production for sale in 2023.

W@M is committed to making a long term positive impact on the community and environment. To help us achieve this, we are seeking partnerships with organisations that share the same values in contributing to community development, environmental conservation, and education.



SOLD 150 upcycled bags

PRODUCTION 400 bags



DEVELOPING TALENT

DIGITAL UPSKILLING AND **RESKILLING PROGRESS FOR 2022**

GRI 401-2. 403-3, 404-2

The School of Digital Business was established on 21 January 2022 to address MAG's Digital Training needs, aligned with LTBP 2.0's 5th strategic pillar. The digital training programmes are offered via short sessions, on-demand learning, and instructor-led training.

During the year, "Learnjelah", a two-hour virtual learning session on Digital & Innovation by industry experts was conducted four times and attended by 610 employees. In addition, four digital courses were specifically designed for MAG's workforce, including Power BI 101 for Beginners, Digital Playground, Power Up with PowerPoint, and Excel at Work, all of which were delivered through instructor-led training.

To ensure that all staff members have equal opportunities for learning and development, we introduced pilot sessions of On-Demand Learning using LinkedIn and Coursera. The initiative received positive feedback and will continue in 2023.

ACHIEVEMENTS

Executive level employees had the highest participation rate at 41%

Middle Management at 19%

Cabin Crew at 18%

In 2022, a total of





ENSURING THE WELLBEING OF OUR PEOPLE

GRI 401-2. 403-3, 403-6

Our employees are our most valuable asset, and we are committed to supporting their health and wellbeing.

We believe that access to quality healthcare is a fundamental right, and we are committed to providing our employees with the best possible care. We understand that chronic medical illnesses can be challenging for employees and their families, which is why we offer a comprehensive health programme that includes coverage for long-term conditions, in addition to inpatient and outpatient care. Our health programme is designed to provide comprehensive coverage for our employees and their families, ensuring they have access to the care they need, whenever they need it. A strong focus on preventative health underpins our health programme. We believe that encouraging healthy lifestyle choices and regular check-ups can help prevent illness and improve overall health outcomes.

For those with long-term medical conditions, we provide a range of support services. This includes access to specialist medical care, counseling services, and financial assistance to help cover medical expenses. We believe that our employees' health is a top priority, and we are committed to providing the support they need to manage their health effectively.

We will continue to invest in our employees' health and wellbeing as we strive to create a supportive workplace for all.

EMPLOYEE WELLBEING

GRI 401-2. 403-3, 403-6, 403-7

We understand that the daily stresses of life and the workplace can take a toll on our health. These situations were further exacerbated by the pandemic restrictions. To ensure our people are taken care of emotionally, mentally, socially and spiritually, we have adopted holistic and comprehensive approach to their wellbeing.

In addition to taking care of their psychosocial needs we established the Employee Assistance Programme (EAP), launched in March 2020 during the lockdown, focuses on 4 psychosocial health intervention dimensions to provide employees in managing their wellbeing effectively.

The EAP focuses on four (4) psychosocial health intervention dimensions.

Mental & Emotional Health Main Areas: Mental and emotional wellbeing	 Key initiatives: MHeart is a digital psychological and counselling service that provides employees with tools and techniques in addressing emotional, mental and psychological conditions. Mental Health Webinar Coaching Support including face-to-face counseling and Supervisory C.A.R.E training programme.
Social Health Main Areas: Financial wellbeing, diversity and inclusion	Key initiatives: For A Better Tomorrow - Taking Charge of Your Finance which covers financial literacy programmes and ensuring an inclusive and diverse culture.
Spiritual Health Main Areas: Spiritual wellbeing	Key initiatives: Sembang Santai series aimed at instilling good habits and positive thinking featuring talks with guests speakers on topics related to spiritual development.



Mental & Emotional Health - MHeart Programme

GRI 401-2. 403-3, 403-6, 403-7

MAG collaborates with Naluri, a Malaysia-based digital therapeutics company to provide our people with psychological health support through a multi-disciplinary and structured approach to health coaching and psychological support.

Coaching Support

Multi-disciplinary coaches

With a professional including psychologist, dietitians and career coaches for expert advice

Remote therapy

60 mins one-on-one virtual consultation

F2F therapy 60 mins one-on-one in-person consultation

Dedicated hotline 9am-9pm hotline for immediate support

Educational Content



Wellness website Educational hub for all corporate clients



Webinars Interact with health experts through live webinars

Digital Tools

Connected devices

Track and monitor steps, weight, blood pressure and waistline

Thought journal

Record thought patterns and emotions to process feelings, manage emotions and identify triggers

Food journal

Snap a photo, track food intake and receive nutrition advice

Planner

Gamify the healthy lifestyle experience by setting challenges and reminders for activities such as diet, exercise, self-care, and more.

Newsletters & blogs

Stay updated on the latest

mental health tips and

informative articles

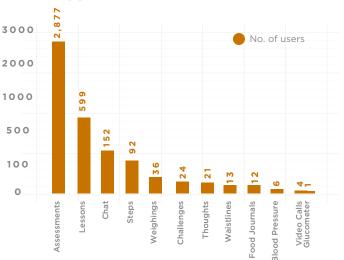


REG	ISTER	ED
USE	RS	
8.	69	99
*as at	: Dec 20	22

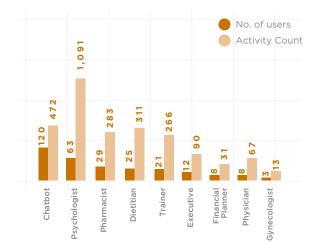


Digital modules Over 77 self-help modules to learn on-the-go

Number of employees using each app feature



Number of employees and chat activity using each chat channel





Social Health

GRI 401-2. 403-3, 403-5

Activity	Relevance	
Women's Health (Own Your Health)	 Healthy employees contribute to workplace productivity. Excessive working hours and high stress levels, combined with an inactive lifestyle, are contributing factors to declining health. It is crucial to create awareness of adopting a healthy lifestyle among employees. 	
Men's Health	Men are more likely to neglect their health, therefore it is important to improve awareness on health and wellbeing, both at home and at the workplace.	
Ergonomics at Workplace	Sitting at a desk or working a job that requires lifting and repeated movements can cause stress on the musculoskeletal system, leading to chronic injuries. Encouraging a deeper understanding of the body, performing specific stretches and exercises, and adopting a proper posture can prevent injury.	
Road safety (Mini Safety Day)	Road accidents can occur during travel to and from the workplace. Raising awareness of road safety and etiquette among employees can reduce the risk of accidents.	
Ergonomics at Workplace (Physical)	Understanding ergonomics requires practical sessions to demonstrate correct posture and exercises to minimise the risk of injuries related to repetitive stress on muscles and joints.	

Spiritual Health

GRI 401-2. 403-3, 403-5

Sembang Santai







25 February 2022

Fadzli Aziz Motivator, TV Host

Bugar Diri - Change Your Perspective to Change Your Habit

3 June 2022

Ambassador Dato' Aminahtun Karim Former Public Career Diplomat

Passion, Perseverance & Patience

24 June 2022

Fayza Mohamed Amin Independent Non-Executive Director of Cradle Fund Sdn Bhd

Atomic Habit

Dakwah Bawah Pokok

3 June 2022

Bangau Oh Bangau

Hangar 5, EMD

28 July 2022

Kopi vs Gula

MASKargo Logistics





ENSURING THE BEST CUSTOMER EXPERIENCE

In 2022, our Customer Experience Department focused on minimising our environmental impact while contributing to our organisational goals as outlined in our Sustainability Blueprint.

The department's initiatives were guided by the following principles:

- **Reduction of waste and emissions:** Minimising the use of resources, reducing waste and emissions, and working towards becoming carbon neutral.
- Increased efficiency: Implementing processes and technologies that increase efficiency and reduce waste, such as digitalising documents and using sustainable materials.
- **Sustainable procurement:** Ensuring that suppliers and partners meet the same sustainability standards as the airline, using eco-friendly products and services whenever possible.
- **Customer engagement:** Engaging customers in sustainability efforts and educating them on the importance of sustainability in the aviation industry.
- **Continual improvement:** Regularly reviewing and improving sustainability initiatives and processes to ensure they remain relevant and effective.
- **Collaboration:** Collaborating with other departments, industry partners, and stakeholders to drive sustainability initiatives forward and achieve common sustainability goals.



REFRESHING OUR CABINS

Improving our offerings goes hand in hand with our carbon reduction initiatives. We refurbished the B737-800 NG cabins and upgraded the new seats in both the Business and Economy classes to offer a superior traveling experience.

The new seats are made with durable lightweight materials and feature personal device holders and power outlets for charging. The design is functional, comfortable, and visually pleasing, while proudly showcasing the Malaysian identity through batik motifs.

Lighter materials are also used throughout the cabins, with soft dividers replacing hard partitions for a more welcoming feel.







TRACKING FEEDBACK AND COMPLAINTS

GRI 2-23, 2-24, 2-27

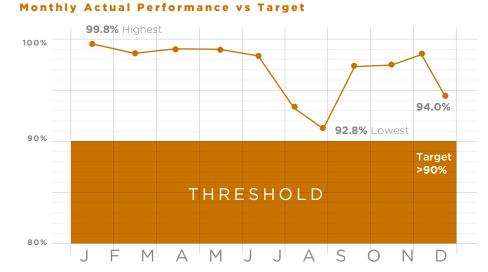
The MAVCOM Closure Rate Report shows the total number of closed complaints that were lodged with MAB, which are reported to MAVCOM quarterly. This report is central to our efforts in our obligations as governed by the First Schedule of Malaysia Aviation Consumer Protection Code (MACPC), and to safeguard the rights of consumers in the aviation industry.

YTD STATISTICS 2022

12,532 Complaints

12,184 Closed Complaints

97.2% Closure Rate



MAVCOM Closure ThresholdClosure rate '22



DIGITALISING OUR Processes

Digitalising our processes helps improve the experience for our customers, employees and suppliers by reducing processing time and providing a platform for direct communication, in addition to reducing usage of paper. Our Customer Experience Department at MAG is dedicated to promoting digitalisation and sustainability through data-driven initiatives.

MAG has implemented the **MH Self Service Portal**, which provides customers with self-service options such as flight disruption letters, mishandled baggage reporting, travel confirmations, and travel documentation. Storage for documents is now cloud-based, allowing easy and secure access.

For our employees, the **MH SuperCEX Employee Attendance Tracking** system improves remote work efficiency and effectiveness by digitalising workflow documentation.

For our suppliers, our Procurement Blueprint highlights key initiatives to improve their experience with us.

DIGITALISING THE CUSTOMER EXPERIENCE

At MAG, our hospitality extends throughout the entire customer experience, from pre-booking to travel experiences at the destination.

Digitalising our processes enhances customer experience, allowing faster service by reducing wait times and enabling us to provide a more personalised and transparent experience. Automating certain processes increases operational efficiency and improves customer satisfaction.



MALAYSIA AIRLINES BAGGAGE SELF-Service reporting

The Baggage Self service Reporting system commenced on 29th July 2022. By offering our customers a convenient way to easily report lost or delayed baggage, update their contact information and baggage details, their experience on our flights is significantly improved. The system automatically populates passenger information and baggage details from the airlines' departure control system, allowing a seamless and efficient reporting process.

AskMH

The AskMH platform is a one-stop centre on the Malaysia Airlines website that provides quick answers to frequently asked questions. It includes information on new products, updated travel information, travel advisory, and product suspension FAQs. This platform reduces the volume of inquiries to the Contact Center and number of emails received, as customers can search for relevant information at any time and from any location. The FAQs on the platform are regularly updated through quarterly maintenance and engagement with stakeholders to ensure their accuracy.





MH E-FOCUS GROUP

We want to know what our customers expect of us and the best way to get that information is by directly engaging them. The MH e-Focus Group is an ongoing initiative that involves interviews with a target audience to get feedback on our products, services, and marketing campaigns. Through direct engagement and seeing their suggestions implemented, our customers will feel valued and assured that our commitment to customer service is not merely lip service.



Touchbase / Engage

To find out how our customers are coping during these uncertain times and how they are embracing the new norm



Leveraging the Digitalisation for Onboard Experience To identify the strength & weaknesses of digitalisation and customer preference on

digital experience & 'personal

touch' at various touchpoints



Improving the **Premium Customer** Experience

To capture feedback and insight on the value of Premium Economy (PEY) offerings and flight disruption handling experience



Expanding Product and Service Offerings

To gauge opinions on the expansion of our product and service offerings

MALAYSIA AIRLINES (MH) CUSTOMER INSIGHT SURVEY (MHCIS)

We conducted the MHCIS in Q4 2022 to gain further insight into customer preferences and travel aspirations for 2023 and beyond. We received 10,262 responses through Malaysia Airlines' social media platforms and newsletter subscribers.

88% of the respondents were Enrich Members and 12% were non-Enrich Members, with most having recently traveled with an airline within the last 3 months.

Health and safety measures continue to be a major influence on customers' travel plans. The survey will provide valuable information on areas for improvement in our products and services, airport experience, in-flight experience, and onboard.

BUILDING A COMMUNITY OF CUSTOMERS

CUSTOMER ADVOCACY PROGRAMME (MHfriends)

We created MHfriends in March 2022, a community of frequent flyers, to help us improve our products and services and bring new and innovative ideas to enhance the experience for all our customers.

Through MHfriends, the community members will have the opportunity to:

- Join the quarterly 'Meet and Greet Session' to share feedback in a casual, small aroup setting.
- Be the first to experience new products / concept testing including food tasting for new menu development.
- Participate in Malaysia Airlines' surveys for product design and development.
- Receive quarterly newsletters and be informed of exclusive updates and news on Malaysia Airlines.
- Be a Mystery Shopper on our flights (when flying Malaysia Airlines).

In 2022, we held several events under the MHfriends initiative, including BeYOUtiful @Tiarasa Luxe that celebrates women and wellness, a Wireless Inflight Entertainment User Experience Session and the opportunity for guests to experience our refreshed cabins and evaluate the new seating and glassware.











OTHER DIGITALISATION PROJECTS FOR OUR CUSTOMERS

MH SELF SERVICE PORTAL ENHANCEMENT

- To allow customers self-service options in obtaining delay / cancellation confirmation letters immediately.
- To improve the current flight disruption letter module with inclusion of additional flight disruption scenarios.
- To introduce the Travel Confirmation Letter module.

MH TRADVISOR | ALIGNMENT OF TRAVEL INFORMATION ACROSS ALL FRONTLINE AREAS

- To act as a quick reference point for the evolving travel requirements for different countries.
- To ensure our frontline teams have the right resources to communicate with customers to keep them updated with the correct travel requirements.

CUSTOMER RELATIONS ONLINE RESOURCES | STANDARD OPERATING PROCEDURE (SOP)

- To act as a single source platform.
- To provide an accessible and secure platform for sensitive documents.
- To facilitate document control, access and retrieval.

DATA AND FILE ARCHIVING SOLUTION | HEROKU BACKED DATA STORAGE



- To comply with data retention policies while remaining within the allocated data budget.
- To improve performance, reporting, and record locking.
- To improve data access and retrieval in Salesforce.



EMPLOYEE ATTENDANCE TRACKING | MH SUPER CEX

- Zero development cost
- To improve efficiency and effectiveness of working from home (WFH).
- Features in the app:
 Attendance Reports & History
 - Attendance History
 Health Check Form
 - Leave Management
 - Check in/out : date / time / location tracker
 - MH Quality Assurance Self Evaluation
- Form (MHQASE) link



FLIGHT TICKET REQUEST | MARKETING SPONSORHIP

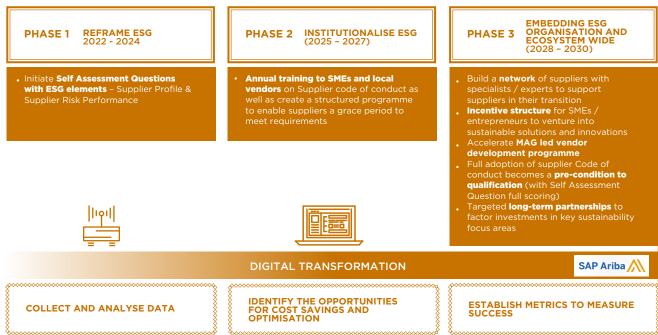
- To automate manual processes and tracking.
- To create a completely digital process.

DIGITALISING THE SUPPLIER EXPERIENCE

MAG's Supplier Relationship System (SRM) is a systematic approach to evaluate our vendors who supply goods, materials, and services. The SRM determines each supplier's contribution to develop strategies that improve their performance and enhance our long-term relationships with them.

The key benefits from the SRM include increased efficiency and accuracy throughout the entire process. Vendors are also given the autonomy, through self-assessment and training, to improve their implementation of ESG elements.

MAG Procurement Blueprint Key initiatives relating to Supplier Management





ENGAGING THE COMMUNITY

By improving our communities, we improve ourselves. MAG actively engages with the communities we serve to build trust and involvement, bridging the gaps in communication through collaborations that bring positive and sustainable economic, social, and environmental development.

Our MH Rangers team, established in 2018, is a ready pool of staff volunteers that support the organisation's CSR initiatives and activities.

MH RANGERS

GRI 413-1

2022 DEPLOYMENTS & ACTIVATIONS

With the roll-out of LTBP 2.0, the MH Rangers – MAG Employee Volunteering Programme continues to play a major supporting role in driving MAG's five (5) key pillars and six (6) beliefs anchored on MAG's Statement of Purpose:



Established in 2018, MH Rangers contributed to the improvement of our performance in delivering Malaysian Hospitality (MH). This programme steers a sense of solidarity in MAG employees and empowers them to volunteer their skills, experience, commitment and time to make a difference to every customer at various customer touchpoints and intervene in a crisis to minimise business disruptions.

In response to a potential, imminent or actual crisis. the **Emergency Operations Committee (EOC) may instruct MH Rangers' activation**.

Guided by HC-EOC Rep, **the deployment of MH Rangers will help manage the critical situation and minimise its impacts.** It will also enhance and align the whole Group's response to the crisis.

Based on the criticality of the situation, MH Rangers' Operation Control Centre will **deploy the first squad of 10 members within eight (8) hours of activation.**

	Unit	Total
Staff Volunteering	Hours	2,384
Humanitarian Aid	Tonnes	2.5
Humanitarian-Aid Worker Passengers	Pax	1,090

MH RANGERS' ACTIVITIES



ကို ကို ၊ ၊ ကို ကို

Assistance





of MH



Humanitarian CSR



EOC is activated in **CRISIS.**



EOC instructs the deployment of MH Rangers via HC-EOC Rep. The following is identified: • Areas in crisis • MH Rangers' roles • MH Rangers Operations Lead



Time of deployment



MH Rangers Operations Lead establishes lines of communication



MH Rangers Operations Lead assembles team members





Educational Awareness

Turnaround
Aircraft Quality
Control

Special Assistance Team for Crisis



THE ALES	Registered MH Rangers 1,657 Official Deployments (Jan-Dec 2022) 9
MH Rangers is a team of employees across all MAG's departments and entities who volunteer their services or have been selected based on their skills and experience to be mobilised in times of crisis.	2022 MHR Activated 250 2022 MHR Man-Days 446

Since MH Rangers was formed, they have actively contributed to a number of community and humanitarian efforts.

During the 2022 floods in Malaysia, MH Rangers on-site support to the victims and distributed care packs in the Klang Valley and Sepang areas. After the floodwaters receded, they assisted in post-flood cleaning efforts. A dedicated call centre and evacuation centre were established to coordinate the team's operations.

2022 TIMELINE

Deployment MHR Digital Solutions & Payments	Level of Criticality Moderate	Total MHR Activated 1	Total Man-Days 9
MAG Flood Relief (19 Dec 2021 - Jan 2022)	High	156	298
On-Site Support MH Cool Treat	Low	4	5
EOC Deployment BTW Baggage Management	High	38	6 5
On-Site Support MAG Retiree - Appreciation Event	Low	11	21
On-Site Support MAG Open Day Recruitment 2022	Low	14	14
On-Site Support MAG Coffee Table Book Launch	Low	5	5
On-Site Support KLIA Departure - Balik Kampung	Low	20	28
On-Site Support Anugerah WOW 2022-H1	Low	1	1
MAG Flood Relief (Dec 2022)	High	241	-

MHR-MAG FLOOD RELIEF DEPLOYMENT COVERED

Klang Valley & Sepang

Post-Flood **House Cleaning**

Care Pack

Delivery

Klang Valley & Sepang

MAG Evacuation Centre

South Support Zone (SSZ) & MAB Academy (MABA)

On-Site Support

Care Pack Production LSG Sky Chef Ibrahim

KLIA Departure

MHR Call Centre

Coordinated MHR Delivery Team & Engaged with Affected Employees

46



MASwings BLOOD DONATION GRI 413-1

Blood is the most precious gift; one that can save a life.

MASwings signed a memorandum of understanding (MOU) with the Malaysian Red Crescent-Kota Kinabalu to collaborate on blood donation campaigns and other beneficial activities.

MASwings' sustainability initiatives in Sabah, Sarawak, and Federal Territory Labuan encompass environmental and social causes aimed bettering the lives of the communities it serves.



Collaborated with

MALAYSIAN RED CRESCENT



Lives Saved 459 *** * * * * * * * * * * * * ***

Blood Donation

153 PINTS Successfully collected 153 pints of blood during the 2022 blood donation drive



Sustainability Report 2022

Hospitali with

GOVERNANC Building Trust

- 49 Corporate Governance at MAG
- **50** Good Governance Practices for Sustainability
- 50 A Multi-Level Approach to Safety and Security
- 51 Upholding Human Rights
- 52 Corporate Governance for Sustainability

At Malaysia Aviation Group, our utmost priority is to enhance longterm value for our stakeholders through a steadfast commitment to corporate governance at every level of our organisation.

Mala

We believe that being proactive in ensuring good governance ensures we operate to the highest of ethical standards and in compliance with laws and regulations, building trust and credibility with our stakeholders. By practicing good governance, clear lines of responsibility and accountability are established, enhancing our decision-making, boosting operational performance, and mitigating risks. Establishing MAG as an organisation that is ethical, credible, and transparent will attract the finest of industry talents to join our positive work culture, further enhancing our reputation.

Aside from maintaining a robust corporate governance framework that governs our dayto-day operations, our commitment to good governance extends to prioritising safety, upholding human rights, managing risks effectively, and ensuring responsible supply chain and procurement practices.

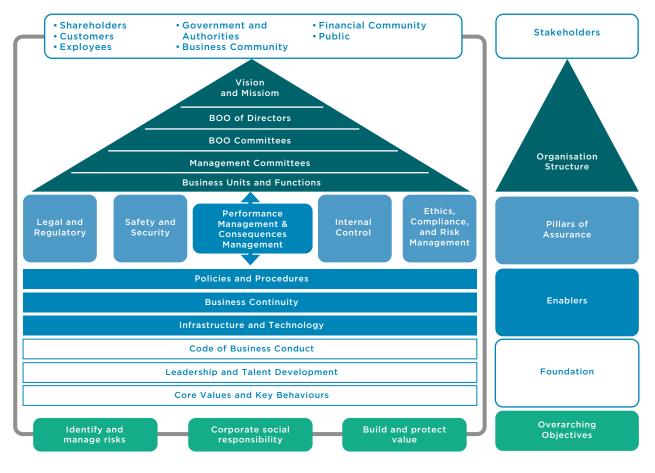


CORPORATE **GOVERNANCE AT MAG**

GRI 2-9, 2-12, 2-13, 2-16, 2-23, 2-24, 2-25, 2-27, 403-2

Corporate governance at MAG ensures oversight, transparency, and accountability throughout our organisation, while balancing the interests of all our stakeholder groups. The corporate governance structure comprises a suite of policies, frameworks, and standards that direct the conduct, management, and performance of the Group's employees, and outlines the communication and maintenance of corporate policies and procedures. This includes comprehensive guidelines for the Financial Approving Authority and Limits for MAG, as defined in the CAAP. All governance frameworks are consolidated in our 'House of Order'.

In order to accomplish sustainability objectives in MAG, it is crucial to establish transparent lines of accountability that empower us to make well-informed and impactful decisions.



Key Policies, Processes and Systems	 Annual Declaration Anti – Wildlife Trafficking Anti Bribery and Corruption Anti Human Trafficking 	 Code of Business of Conducts (COBC) MAG Whistleblowing Policy Personal Data Protection Act (PDPA)
-------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------



GOOD GOVERNANCE PRACTICES FOR SUSTAINABILITY

GRI 2-23, 2-24, 2-25, 2-27, 416-2, 418-1

A MULTI-LEVEL APPROACH TO SAFETY AND SECURITY

GRI 416-2, 418-1

In 2022, all three of our airlines underwent Civil Aviation Authority of Malaysia air Operator Certificate (AOC) Renewal and Surveillance Audits in 2022, maintaining our AOC certifications. The AOC certification is a key regulatory certification for airlines to operate.

MAB conform to the IATA Operational Safety Audit (IOSA) certification. ADS HQ and Kuala Lumpur were IATA Safety Audit for Ground Operations (ISAGO) recertified until end of 2023, and conflict zones of Ukraine, Middle East and South China Sea are closely monitored. Potential cyberthreats are constantly evaluated by our IT Cybersecurity team.

We continue to implement safety measures related to COVID-19 among our staff. We emphasise safety and security at all levels within our Business Units (BU),

with clear targets and measurable indicators. An Operational Safety Management

review is conducted periodically, with the results escalated to the BU Safety Action Groups (SAG), chaired by the Head of Operations and the Airlines Safety Review Board (SRB). A Safety Review Meeting (SRM) is chaired by the Group Managing

Director (GMD) quarterly. Safety matters are escalated to the Board Safety and

Security Committee for their guidance. All three of our airlines have undergone the

Civil Aviation Authority of Malaysia Air Operator Certificate (AOC) Renewal and

Surveillance Audits in 2022 and maintained our AOC certifications. This is a key

regulatory Flight Operations Safety Certification for airlines to operate.







ZERO Accidents and Workplace Related Deaths in 2022





Maintaining a multi-level approach to safety and security involves continuous monitoring to ensure we are always proactive in staying one step ahead.





UPHOLDING HUMAN RIGHTS

GRI 2-23, 2-24, 2-25, 2-27

The aviation industry is seen as "the business of freedom", providing access to a global network that reunites families, facilitates tourism and cultural exchange, and opens gateways to a new life for many at-risk individuals.

This capacity comes with its own risks. According to the 2021 Global Estimates of Modern Slavery, there are currently 50 million people in situations of modern slavery – the very antithesis of social justice and sustainable development. Through the adoption of the Sustainable Development Goals (SDGs), the global community has committed to ending modern slavery among children by 2025, and universally by 2030 (based on SDG Target 8.7) and the aviation industry plays a very big role in achieving this.

Having said that, MAG does not tolerate and support modern slavery as stated under our Human Capital Policy.

Our key approach of **creating awareness, capacity building** and **collaborating with strategic partners** has helped us contribute to this universal goal. We adopt a zerotolerance approach to modern slavery in any form, and our position is clearly stated in our Human Capital Policy.



"According to the 2021 Global Estimates of Modern Slavery, there are currently **50 million** people in situations of modern slavery the very antithesis of social justice and sustainable development"





Continuous awareness

Group Business Integrity provides recurrent training for victim identification and reporting mechanisms. The training module was developed in 2018 and later digitalised.



Specialised training

Our crew and operations staff have been specifically trained to identify possible trafficking victims and implement reporting mechanisms. They are made aware of profiling, discreet reporting methods and the Do Not Harm Concept as circulated by ICAO guidelines.



Collaborating with strategic partners

In 2017, we began engaging with the Council for Anti-Trafficking in Persons and Anti-Smuggling of Migrants (MAPO), an agency under the Ministry of Home Affairs. In 2022, we signed an MOU with Stop Human Trafficking (SHUT) to develop and conduct the identification of human trafficking module for our employees. The MOU was signed during our inaugural Aviation Against Trafficking in Persons Conference (AATIP-C), held in conjunction with World Day Against Human Trafficking.







CORPORATE GOVERNANCE FOR SUSTAINABILITY

GRI 2-16, 205-2

MAG takes a zero-tolerance approach to corruption to ensure the growth and longterm sustainability of the organisation and build trust with our stakeholders. We are strongly committed to secure and transparent processes across our operations and in embedding a working culture of integrity, as reflected in our Code of Business Conduct which all our employees are bound by.



ANTI-WILDLIFE TRAFFICKING

MAG is fully committed to disrupting the distribution channels of wildlife trafficking within our transportation networks. We have implemented a range of awareness and training programmes for our employees, covering topics such as CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora) regulations, identifying suspicious items or cargo, and reporting mechanisms for suspected illegal contraband.

In addition, we have established strong working relationships with the Customs Department of Malaysia and TRAFFIC, a well-known NGO that monitors global illegal wildlife trade. These partnerships provide us with up-to-date information on the latest modus operandi, enabling us to remain vigilant in disrupting the transportation of illegal contraband within our network.



ZERO reported cases of wildlife trafficking in 2022



SPEAKING UP AGAINST SEXUAL HARASSMENT AND CORRUPTION

GRI 2-16, 2-25, 2-26, 205-3, 206-1

A conducive and safe work environment emphasises open communication and transparent processes. We adopt a zero-tolerance approach to all forms of sexual harassment, bribery and corruption.

MAG has provided our employees a safe channel to raise their concerns affecting the organisation, protected by our Whistleblowing Policy under the Board Governance and Risk Committee (BGRC).

The Whistleblower platform provides a safe and acceptable channel for anyone to raise concerns about malpractice affecting the organisation without fear of reprisal.

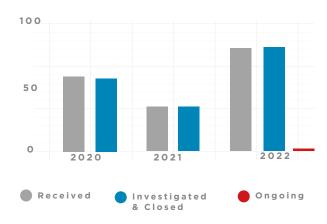
We are committed to making whistleblowing the norm for employees to raise genuine concerns. To support this, MAG conducts anti-corruption and anti-sexual harassment training to enable our employees to identify incidents and take appropriate action through the dedicated grievance channels.

The MAG Anti-Bribery and Corruption Manual provides guidance on how to deal with all forms of solicitation, bribery, and corruption that may arise during the course of business. All MAG employees are required to submit an annual declaration of conflict of interest to promote a culture of transparency. Additionally, the company is also required to submit a bi-annual report to MACC on any reported or investigated cases involving corruption, as well as updates on risk assessments and efforts in eradicating corruption within the organisation. "All MAG employees are required to submit an annual declaration of conflict of interest to promote a culture of transparency within the company"



WHISTLEBLOWER CASES

Year	Total	Investigated & Closed	Ongoing
2020	88	86	2
2021	46	45	1
2022	64	64	
2019	204	204	
2018	41	41	
2017	32	32	
2016	11	11	
Total	486	483	3





RISK MANAGEMENT FRAMEWORK

GRI 2-23, 2-24, 2-25, 2-26, 2-27, 207-2, 403-2

MAG risk management framework guides the organisation in identifying and mitigating risks. It provides a systematic approach to risk management while increasing awareness of business risks, instills confidence, improves compliance and provides decision makers the knowledge and tools to manage risks.

OUR APPROACH TO RISK MANAGEMENT

- Adopting the ISO31000 Risk Management Framework
- The framework satisfies the requirements of Bursa's Statement on Risk Management and Internal Control, the Malaysian Code on Corporate Governance 2021, ISO37001: 2016 Anti Bribery Management System, and the Malaysian Anti-Corruption Commission Act 2009 (MACC Act) Section 17A.

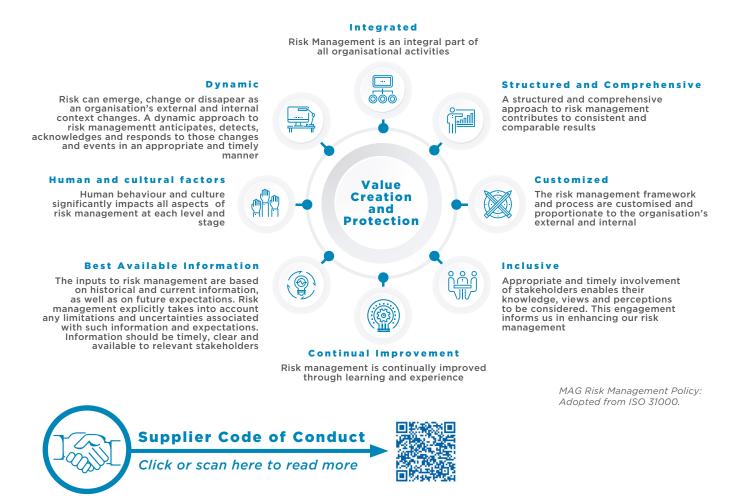
All risks are evaluated in accordance to MAG's Probability and Impact Tables are rated according to MAG's Risk Matrix. Based on the risk rating, mitigation plans are implemented. Critical and High risks are escalated to management and Board Governance, Risk and Compliance (BGRC).

A Key Risk Indicator (KRI) is an indicator, or metric, used to assess and measure a risk. By using Key Risk Indicators, we are able to quantify and monitor changes in the levels of risk exposure and contribute to the early warning signs that enable MAG to prevent crisis and mitigate them in time.

"By using Key Risk Indicators, we are able to quantify and monitor changes in the levels of risk exposure and contribute to the early warning signs that enable MAG to prevent crisis and mitigate them in time."

RISK MANAGEMENT PRINCIPLES

These principles underpin MAG's commitment and guide our risk management approach across all levels.



GRI INDEX

Statement of use	Malaysia Aviation Group (MAG) has reported the information cited in this GRI content index for the period 1 January 2022 - 31 December 2022 with reference to the GRI Standards.
GRI 1 used	GRI 1: Foundation 2021
Applicable GRI Sector Standard(s)	Not applicable

GRI Standard	Disclosure	Page Number (s) or URL/Direct Answe
GRI 2: General Disclosures 2021	2-1 Organisational details	4, 5
	2-2 Entities included in the organisation's sustainability reporting	3
	2-3 Reporting period, frequency and contact point	3
	2-4 Restatements of information	
	2-5 External assurance	3, 8, 10
	2-6 Activities, value chain and other business relationships	4, 5, 9, 10
	2-7 Employees	4
	2-8 Workers who are not employees	
	2-9 Governance structure and composition	49
	2-10 Nomination and selection of the highest governance body	
	2-11 Chair of the highest governance body	
	2-12 Role of the highest governance body in overseeing the management of impacts	49
	2-13 Delegation of responsibility for managing impacts	49
	2-14 Role of the highest governance body in sustainability reporting	
	2-15 Conflicts of interest	
	2-16 Communication of critical concerns	49, 52, 53
	2-17 Collective knowledge of the highest governance body	
	2-18 Evaluation of the performance of the highest governance body	
	2-19 Remuneration policies	
	2-20 Process to determine remuneration	
	2-21 Annual total compensation ratio	
	2-22 Statement on sustainable development strategy	7, 8, 12
	2-23 Policy commitments	15, 22, 23, 28, 32, 33, 35, 41, 49, 50, 51, 5
	2-24 Embedding policy commitments	15, 22, 23, 28, 32, 33, 35, 41, 49, 50, 51, 5
	2-25 Processes to remediate negative impacts	49, 50, 51, 53, 54
	2-26 Mechanisms for seeking advice and raising concerns	53, 54
	2-27 Compliance with laws and regulations	15, 22, 23, 28, 32, 33, 35, 41, 49, 50, 51, 5
	2-28 Membership associations	14
	2-29 Approach to stakeholder engagement	14

Sustainable Tomorrow



GRI Standard	Disclosure	Page Number (s) or URL/Direct Ar
GRI 3: Material Topics 2021	3-1 Process to determine material topics	13
	3-2 List of material topics	13
	3-3 Management of material topics	13
RI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	
	201-2 Financial implications and other risks and opportunities due to climate change	15, 16
	201-3 Defined benefit plan obligations and other retirement plans	33
	201-4 Financial assistance received from government	
SRI 202: Market Presence 2016	202-1 Ratios of standard entry level wage by gender compared to local minimum wage	
	202-2 Proportion of senior management hired from the local community	
GRI 203: Indirect Economic	203-1 Infrastructure investments and services supported	
Impacts 2016	203-2 Significant indirect economic impacts	
GRI 204: Procurement Practices 2016	204-1 Proportion of spending on local suppliers	
GRI 205: Anti-corruption 2016	205-1 Operations assessed for risks related to corruption	
	205-2 Communication and training about anti-corruption policies and procedures	52
	205-3 Confirmed incidents of corruption and actions taken	53
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	53
GRI 207: Tax 2019	207-1 Approach to tax	
	207-2 Tax governance, control, and risk management	54
	207-3 Stakeholder engagement and management of concerns related to tax	
	207-4 Country-by-country reporting	
GRI 301: Materials 2016	301-1 Materials used by weight or volume	11, 25, 26, 27
	301-2 Recycled input materials used	26, 35
	301-3 Reclaimed products and their packaging materials	26
GRI 302: Energy 2016	302-1 Energy consumption within the organisation	
	302-2 Energy consumption outside of the organisation	
	302-3 Energy intensity	
	302-4 Reduction of energy consumption	11, 16, 17, 18, 19, 20
	302-5 Reductions in energy requirements of products and services	11, 19, 20, 21

56



GRI Standard	Disclosure	Page Number (s) or URL/Direct Answ
GRI 303: Water and Effluents 2018	303-1 Interactions with water as a shared resource	25, 28
	303-2 Management of water discharge-related impacts	
	303-3 Water withdrawal	
	303-4 Water discharge	
	303-5 Water consumption	28
GRI 304: Biodiversity 2016	304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	31
	304-2 Significant impacts of activities, products and services on biodiversity	31
	304-3 Habitats protected or restored	31
	304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations	
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	16
	305-2 Energy indirect (Scope 2) GHG emissions	16
	305-3 Other indirect (Scope 3) GHG emissions	16
	305-4 GHG emissions intensity	16
	305-5 Reduction of GHG emissions	11, 20
	305-6 Emissions of ozone-depleting substances (ODS)	
	305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	
	306-2 Management of significant waste-related impacts	25 - 26
	306-3 Waste generated	
	306-4 Waste diverted from disposal	11, 25, 27
	306-5 Waste directed to disposal	
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	
	308-2 Negative environmental impacts in the supply chain and actions taken	
RI 401: Employment 2016	401-1 New employee hires and employee turnover	
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	33, 36-39
	401-3 Parental leave	33
GRI 402: Labor/Management Relations 2016	402-1 Minimum notice periods regarding operational changes	

GRI Standard	Disclosure	Page Number (s) or URL/Direct Answe
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	33
	403-2 Hazard identification, risk assessment, and incident investigation	30, 31, 33, 49, 54
	403-3 Occupational health services	36-39
	403-4 Worker participation, consultation, and communication on occupational health and safety	33
	403-5 Worker training on occupational health and safety	33, 39
	403-6 Promotion of worker health	32, 37-38
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	29 - 30, 33, 37-38
	403-8 Workers covered by an occupational health and safety management system	
	403-9 Work-related injuries	33
	403-10 Work-related ill health	
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	
	404-2 Programs for upgrading employee skills and transition assistance programs	36
	404-3 Percentage of employees receiving regular performance and career development reviews	34
GRI 405: Diversity and Equal Opportunity 2016	405-1 Diversity of governance bodies and employees	34
	405-2 Ratio of basic salary and remuneration of women to men	
GRI 406: Non-discrimination 2016	406-1 Incidents of discrimination and corrective actions taken	
GRI 407: Freedom of Association and Collective Bargaining 2016	407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	
GRI 408: Child Labor 2016	408-1 Operations and suppliers at significant risk for incidents of child labor	
GRI 409: Forced or Compulsory Labor 2016	409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	
GRI 410: Security Practices 2016	410-1 Security personnel trained in human rights policies or procedures	
GRI 411: Rights of Indigenous Peoples 2016	411-1 Incidents of violations involving rights of indigenous peoples	



GRI Standard	Disclosure	Page Number (s) or URL/Direct Answer
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	7, 26, 31, 35, 45 - 47
	413-2 Operations with significant actual and potential negative impacts on local communities	
GRI 414: Supplier Social	414-1 New suppliers that were screened using social criteria	
Assessment 2016	414-2 Negative social impacts in the supply chain and actions taken	
GRI 415: Public Policy 2016	415-1 Political contributions	
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	50
GRI 417: Marketing and Labeling 2016	417-1 Requirements for product and service information and labeling	
	417-2 Incidents of non-compliance concerning product and service information and labeling	
	417-3 Incidents of non-compliance concerning marketing communications	
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	50



IATA ESG METRICS

	Units	Page
E.1 Fuel Consumption (flight operations)	t1	17
E.2 Scope 1 CO ₂ emissions	tCO ₂ ; tCO ₂ e ²	16
E.3 Scope 2 CO ₂ emissions	tCO ₂ ; tCO ₂ e	16
E.4 No _x emissions	kg	16
E.5 Carbon offsets (voluntary - airline purchased)	t	-
E.6 Carbon offsets (voluntary - customer purchased)	t	-
E.7 Carbon offsets (mandatory)	t	-
E.8 Noise:% of fleet that meets with ICAO Chapter III, IV & XIV	%	29-30
E.9 Energy consumption within the organisation, non renewables and renewables	GJ³; MWh⁴	19-21 25-28
S.1 Community engagement and charitable support	\$, hours, cargo t, passengers	45-46
S.2 Work related injuries	#, rate	33, 50
S.3 Fatalites as result of work-related injury	#, rate	33, 50
S.4 Employee training; includes different types of trainings	#, hours	36
G.1 Diversity (gender, grade)	#	34
G.2 Total number of confirmed corruption cases	#	52



ASSURANCE STATEMENT



VERIFAVIA (SINGAPORE) PTE LTD 16 Raffles Quay, #33-03 Hong Leong Building, Singapore

contact@verifavia.com

ASSURANCE STATEMENT

Context

VERIFAVIA SINGAPORE PTE LTD. (referred to as "VERIFAVIA") has been appointed by Malaysia Aviation Group to carry out an impartial verification, providing limited assurance, of the carbon inventory data for scope 1, scope 2, and scope 3 emissions for the period of January 1st to December 31st, 2022. The calculation of scope 2 emissions was based on locationspecific emission factors. The table below presents the comprehensive breakdown of the total CO2 emissions.

Reporting scope	CO ₂ emissions (tonnes)	
Scope 1 (Jet fuel, Diesel & Petrol)	2,779,968	
Scope 2 (Electricity)	18,802	
Scope 3 (Purchased goods & Services, Upstream transportation		
& distribution, Energy & Fuel related activities, Waste generated		
in operations, Business Travel, Employee Commuting, Upstream	631,594	
leased assets)		
Malaysia Aviation Group Total 2022 Scope 1, Scope 2 & Scope 3	3,430,363	

Criteria

We conducted the independent audit based on the following verification criteria:

- ISO 14065:2013 Greenhouse gases requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition
- ISO 14064-3:2019 Greenhouse Gases Specification with guidance for the validation and verification of greenhouse gas emissions and removals
- Chapter 10 of the Greenhouse Gas Protocol "A Corporate Accounting and Reporting Standard" (Revised Edition)

Responsibilities

The preparation and reporting of carbon inventory data, along with all supporting information and assessments, are the sole responsibility of Malaysia Aviation Group. Additionally, they are responsible for setting objectives related to carbon information and management, as well as establishing and maintaining performance management and internal control systems that serve as the basis for the reported information. Our role, as stated in the verification contract, is to form an independent opinion based on the examination of the information, data, and documents provided.

In accordance with the verification contract, it is our duty to form an impartial judgment by thoroughly analyzing the information and data presented in the Carbon Footprint. Our subsequent obligation is to convey this opinion to Malaysia Aviation Group. Additionally, we are required to report any instances where, based on our professional assessment:

- There are actual or potential misstatements (omissions, misrepresentations, or errors) or non-conformities related to the carbon inventory data.
- The verification team/verifier has not been provided with all the necessary information and explanations required to perform a thorough examination.





VERIFAVIA (SINGAPORE) PTE LTD 16 Raffles Quay, #33-03 Hong Leong Building, Singapore contact@verifavia.com www.verifavia.com

• Opportunities exist for enhancing the company's performance in the monitoring and reporting of carbon inventory data communicated through the issues log.

We conducted a thorough examination, taking into account the verification criteria documents listed earlier. This process involved engaging in email and teleconferencing discussions, as well as conducting a virtual site visit between May and June 2023. During these interactions, we interviewed the responsible staff members to obtain limited assurance that the data's amounts and disclosures were appropriately prepared in accordance with the requirements outlined by the Greenhouse Gas Protocol. Our assessment included evaluating the data's relevance, completeness, consistency, transparency, and accuracy. Additionally, we reviewed and considered any necessary estimates and judgments made by Malaysia Aviation Group in preparing the data, while also assessing the overall adequacy of the data's presentation in the Carbon Footprint of Malaysia Aviation Group.

Independence statement

We can confirm that both VERIFAVIA and the verification team maintain complete independence from Malaysia Aviation Group. They have not been involved in any capacity with the creation of the carbon inventory, estimation of GHG emissions, or the preparation of any textual or data-related content presented in the sustainability section of Malaysia Aviation Group's annual report, with the exception of this Assurance Statement.

Opinion

We have carried out a verification of the carbon inventory data reported by Malaysia Aviation Group, as presented earlier. Our verification work, conducted with limited assurance, confirms that these data are accurately represented and do not contain any significant misstatements or non-conformities.

Singapore, 14 June 2023



Mathias Grossmann Aviation & Airports Director, VERIFAVIA

Kaustubh Deshpande Senior Aviation Manager, VERIFAVIA



ABBREVIATIONS AND ACRONYMS

ΑΑΤΙΡ	Advanced Aerospace Threat Identification
	Program
ADS	AeroDarat services
AI	Artificial Intelligence
ATR	Average True Range
AOC	Air Operations Certifications
ВСР	Business Continuity Plan
BGRC	Board Governance, Risk and Compliance
BKI	Kota Kinabalu Intrnational Airports
BMI	Business Media International
BU	Business Unit
Bumiputra	The concept of a bumiputra ethnic group in
Status	Malaysia
СААМ	Civil Aviation Authority of Malaysia
CCUS	Carbon Capture Technologies
CDA	Continuous Descent Altitude
CITES	Convention on International Trade in
	Endangered Species of Wild Fauna and Flora
Co ₂	Carbon Dioxide
COP27	27th Conference of the Parties
CORSIA	Carbon Offsetting and Reduction Scheme for
	International Aviation
coso	Committee of Sponsoring Organisations
CSR	Corporate Social Responsibility
DNA	Deoxyribonucleic Acid
DOSH	Department of Safety and Health
EAP	Employee Assistance Programme
EMD	Engineering Management Department
EOTI	Engine Out Taxi In
EOTo	Engine Out Taxi Out
ERMD	Enterprise Risk Management Department
ERM	Enterprise Risk Management
ESG	Economy, Social, Government
EQA	Environmental Quality Act
FAQ	Frequently Asked Questions
FE	Flight Explorer
FY	Firefly
GB	Group Business
GMD	Group Managing Director
GHG	Green House Gases
GP	Group Procurement
GRCS	Governance, Risk and Compliance System
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IFE	In flight entertainment
IG	Implementation Guidance
IP	Inpatients
IOSA	IATA Operational Safety Audit
ISAGO	IATA Safety Audit for Ground Operations
KLIA	Kuala Lumpur International Airport
KPI	Key Performance Indicator
KRI	Key Risk Indicator
KKI	Komunity Tukang Jahit
	Heathrow
	ncaunow

LTAG	Long Torm Aspirational Coal
LTAG	Long Term Aspirational Goal
	Loss Time Injury
LSG MABA	Lufthansa Group
МАСС	Malaysia Airliens Berhad Academy
	Malaysian Anti Corruption Commission
MAG	Malaysia Aviation Group
MACPC	Malaysia Aviation Consumer Protection Code
MAHB	Malaysia airports Holdings Berhad
MASB	Malaysian Accounting Standards Board
MAVCOM	Malaysian Aviation Commission
MBM MH	Market Based Measure
MHCIS	Malaysian Hospitality
	Malaysia Airlines Customer Insight Survey MH Ranger Call Centre
MHRCC	
MHQASE MK	MH Quality Assurance Self Evaluation Form Malaysia Airlines Berhad Kargo
MOR	Mandatory Occurance Report
MW	MASwings
MOU	Memorandum of Understanding
MYY	Miri Airport
NGO	Non-Governmental Organisation
NGWB	Next Gen Wide Body
NRT	Narita, Tokyo
PBSM	Persatuan Bulan Sabit Malaysia
PDRM	Polis Diraja malaysia
PEN	Penang
PEY	Premium Economy
RAAL	Reduced Acceleration Altitude
REVY	Idle Reverse Trust
RFLAP	Reduced Drag Landing Flaps Robotic
RPA	Process Automation SAG Safety Action
	Groups
SAF	Sustainable Aviation Fuel
SGD	Sustainable Development Goals
SHAME	Sexual Harassment Must End
SHUT	Stop Human Trafficking Association
SME	Small and mid size enterprises
SOHELP	Safety Health Enhancement Level Program
SOP	Standard Operating Procedure
SP	Outpatients Specialist
SRB	Safety Review Board
SRM	Safety Review Meeting
SRM	Supplier Relationship Management
SZB	Sultan Abdul Aziz Shah Airport
SSZ	South Support Zone
SYD	Sydney
TRAFFIC	Trade Records Analysis of Flora and Fauna in
	Commerce
WB	Whistleblower
WFH	Work from home
WHM	Wildlife Hazard Management Program
W-Ife	Wireless Inflight Entertainment



Υ.



Email: sustainability@malaysiaairlines.com



mabengineering Đ



