

ASL Carbon Reporting & Reduction Plan

Name: ASL Holdings DAC

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Commitment to achieving Net Zero

ASL is committed to achieving Net Zero emissions by 2050. This is in line with the aviation industry agreed targets.

Baseline Year and Targets & Reduction Strategy

Our Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Our Baseline emissions are the reference point against which emissions reduction will be measured. These have been calculated by Carbon Responsible a UK based company. Our reports were prepared using the GHG Corporate Reporting and Accounting Standard, using UK Government Reporting and Conversion methodology and conversion factors and methodologies under SECR guidelines.

ASL's FY23 is the third year of measurement. We are using FY23 to evaluate the establishing of realistic targets and determining their alignment with industry standards. This strategic endeavour encompasses a thorough examination of various parameters to gauge the potential efficacy and relevance of setting targets within the ASL framework. Moreover, ASL intends to scrutinise the existing industry benchmarks to ascertain the positioning of prospective targets in relation to established norms and expectations. Through this process, ASL endeavours to foster greater clarity, transparency, and effectiveness in its operational objectives, ultimately enhancing its contribution to the broader industry landscape.

ASL relies heavily on technological advancements in low-emission fuels and aircraft to mitigate our emissions impact. However, ASL recognises the necessity of broadening its scope beyond these primary areas. In an effort to address our emissions profile comprehensively, we are undertaking an assessment of our capacity and relevance in establishing targets across other emission sectors. By diversifying our focus and exploring avenues beyond fuel and aircraft technology, ASL aims to contribute meaningfully to emission reduction efforts and align with evolving industry standards for sustainable aviation practices.

Our future reporting and reduction obligations will be derived from the EU Corporate Sustainability Reporting Directive (CSRD). The CSRD will expand obligations on companies, including ASL, to report on corporate sustainability as part of their audited financial statements. Expected to apply to ASL from the financial year 2025, the CSRD will require ASL to set specific and measurable targets across key areas, including environmental sustainability, employee welfare and supply chain risk management. The report will need to reflect a culture of sustainability that is firmly entrenched in ASL's decision making, governance, and company strategy at the highest level. While we wait for the European Commission to set reporting standards under the CSRD later in 2024, preparations are underway to ensure that the new obligations are understood, that information is being gathered, and that necessary action is taken to ensure that ASL is in the best position to comply with these future requirements.

Baseline Year: 2021	
Additional Details relating to the Baseline Emissions calculations.	
The Baseline was set in 2021 where limited Scope 3 information was available. The emissions have been calculated by Carbon Responsible. The reports were prepared by Carbon Responsible using the GHG Corporate Reporting and Accounting Standard, using UK Government Reporting and Conversion methodology and conversion factors.	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	1,922,504
Scope 2	2,403
Scope 3 (Included Sources)	1,396
Total Emissions	1,926,304

Current Emissions Reporting

Reporting Year: 2023 <i>(Note: Total CO₂ increased in '23 due to better scope 3 reporting)</i>	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	1,918,439
Scope 2	2,294
Scope 3 (Included Sources)	437,709
Total Emissions	2,261,926

Carbon Reduction Projects & Targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

ASL AIMING TO HIT THE 2030 AND 2050 EMISSIONS TARGETS (I)

As industries and governments are taking increasing steps to address the threat of climate change, much focus is being placed on the transition that aviation will need to fit into its own industry goals but also wider climate goals. ASL Aviation Holdings has committed to several governmental and industry roadmaps to lower carbon emissions by 2030 and net-zero emissions by 2050.

To ensure we reach this goal, ASL has established a committee to introduce, monitor, track and report on green initiatives within the organisation. Monitoring and managing several environmental aspects will be vital to reducing carbon emissions and enforcing sustainable practices within ASL's entities.

These include greenhouse gas inventory and mitigation, waste management, water usage, energy usage, printing and paper usage, virtual and sustainable meetings and employee awareness on environmental matters. However our biggest impact will be the reduction of aircraft fuel burn which accounts for 99% of our Scope 1 emissions.

To effectively reduce carbon emissions and promote sustainable practices, ASL is actively monitoring and managing several key environmental aspects within its entities.

These areas include:

1. Office/Hangar Electricity
2. Electric Vehicles/Recycling and Waste
3. Aircraft Fuel burn reduction projects
4. Drone (UAV) Operations
5. Aircraft Onboard Recycling

ASL acknowledges the significance of ESG factors and is committed to adopting innovative and environmentally sustainable practices and technologies. To achieve meaningful reductions in CO2 emissions, ASL is targeting specific areas across its seven entities and three joint venture and associate airlines.

Supporting ASL entities on the journey towards climate neutrality and environmental sustainability is important. Good practices, sustainability initiatives, and reports on each entity's progress will be shared across ASL by working alongside team leaders in each entity to track and advance environmental sustainability in ASL Aviation Holdings.

AIMING TO HIT THE 2030 AND 2050 EMISSIONS TARGETS (II)

Project Goals and KPI's

We have and are applying several practical measures to propel ASL towards the industry's target of achieving net-zero emissions by 2050:

1. Office/Hangar Electricity
 - a. Replacing all office lighting with energy-efficient fluorescent fixtures.
 - b. Disposal of electrical equipment through specialised e-waste providers.
 - c. Introduce solar panels to ASL offices.

2. Paper Usage/Staff education
 - a. Introduced staff education programmes on corporate sustainability.
 - b. Adopted paperless schemes for filing/administration, training handouts and payment methods.

3. Financial Audits
 - a. Minimising paper usage and encouraging more paperless audit activities.

4. Recycling and Waste
 - a. Increasing the number of designated recycling and compost bins in ASL offices.
 - b. Phasing out single-use plastics in ASL offices.
 - c. Reduce Cleaning Cloth Consumption (A-Checks)

5. Electric Vehicles
 - a. Gradually transitioning to hybrid/electric vehicles and installing more charging facilities across all ASL entities.

6. Drone (UAV) Operations
 - a. ASL Future Flight has been awarded Ireland's first Aircraft Operators Certificate (AOC) for drone operations and is now in the process of preparing for drone flight operations.
 - b. Overtime, we will produce cost-benefit analysis and benefits realisation plan to ASL entities.

7. Onboard Aircraft Recycling
 - a. Reduced pilot paper usage via digital programmes and documentation.
 - b. Exploring options for more eco-friendly practices on board passenger flights.

8. Reduction of aircraft Fuel Burn.

- a. Minimise Fuel usage with fuel saving programs and introduce these into the ASL Fuel saving policy manual and OM where applicable.

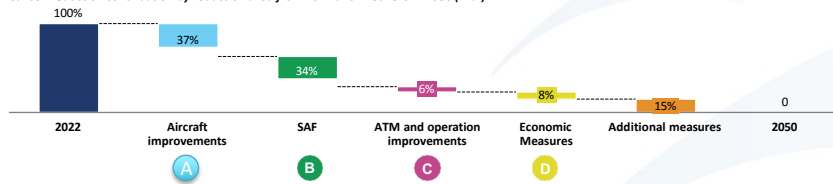
ASL Aviation Holdings’ commitment to climate neutrality and environmental sustainability is driven by a comprehensive and proactive approach. By targeting key areas for emission reduction and promoting sustainable practices across its entities, ASL aims to play a significant role in mitigating climate change while fostering a greener future for the aviation industry.

ASL’s Net Zero Carbon Emission Target

ASL’s Path to Achieving its Medium Term Carbon Emission Reduction Target of 50% by 2030 primarily driven by Increased Usage of SAF and its Fleet Renewal Programme

ASL’s Path to Achieving Net Zero Carbon Emission Reduction by 2050

Carbon reduction contribution by reduction area from 2022 until Net Zero in 2050 (in %)



Majority of B737’s in 2024 are now New Generation

A

45 x B737-400 Classic

79 x B737-800 NG*

*Each NG improves fuel consumption by aprox 15% vs -400



¹ Reduction breakdown shows selected measures until end of 2050. The measures are contributing to the projected reduction of 85% by 2050, but further measures within these categories are required beyond the current planning horizon. ² ASL’s customers supply most of the SAF themselves (or ASL purchases it on their behalf and recharges), e.g. DHL, Amazon and Fedex all have SAF agreements in place.

Commentary

ASL has detailed action plans to significantly reduce CO2 emissions, involving customers, partners, suppliers and other stakeholders:

- A Improvements in aircraft and engine technologies (-37%)**
 - 30% improvement in fuel efficiency for the largest single and twin-aisle aircraft
 - 50% improvement for regional aircraft based on hybrid-electric propulsion
 - Regional hydrogen-powered aircraft (by 2035)
- B Sustainable Aviation Fuel (-34%)**
 - Exponential scale-up of SAFs from 2030, incl. blending up to 100%
 - 83% of total fuel consumption by 2050
 - Competitive market but ASL’s and its customers likely able to sufficiently source SAF²
- C Improvements in ATM and aircraft operations (-6%)**
- D Economic measures (-8%)**
 - Emissions trading, e.g. EU ETS
 - Offsetting schemes – CORSIA

ASL is committed to replacing older Boeing 737-400 classic aircraft with newer Boeing 737-800 New Generation aircraft which are aprox. 15% more fuel efficient. This process is well underway.

ASL AVIATION HOLDINGS ESG REPORT SNAPSHOT

ESG - ENVIRONMENTAL, SOCIAL, GOVERNANCE

Delivering on our Promises

ASL Aviation Holdings is a global business with a common focus in all our activities worldwide, to strive to always deliver on our promises and commitments.

ASL Aviation Holdings is a global business with a common focus in all our activities worldwide, to strive to always deliver on our promises and strategies including our ESG Policy and ESG Commitment.

ESG Policy

ASL is committed to helping to reduce emissions, eventually to the point of total elimination, through its own initiatives and by working closely with industry partners. We recognise the aviation industry must balance the benefits of the social and economic connectivity that we bring with the requirement to cut emissions and make aviation sustainable.

ASL believes that aviation, while fundamental, must also be sustainable, and we aim to promote and inspire to this sustainability through our ESG policy.

ESG Commitment

In 2020 ASL Aviation Holdings adopted a new ESG Commitment to reflect the Group's awareness of our environmental, social and governance responsibilities.

Care, Compassion and Compliance ASL is committed to compliance and governance, to the safety and security of our staff, to our customers, the communities we serve and act in the best interests of our environment and our planet.

ASL's ESG strategy has evolved further to represent the multi-year programmes that have been launched across our global business.

4 Commitment to Sustainability, Social Inclusion, Safety and Standards



OUR 2023 CARBON EMISSIONS

2,461,926
Total Tons of CO₂e Emissions – 2023

2,394,444
Total Tons of CO₂e Emissions – 2022

Overall ASL's GHG emissions increased by **2.82%** Driven by Additional Airlines, Flying and Passengers

2,017,434
1,918,439
Scope 1 – Direct CO₂e Emissions 2023
+8.16%

2023 figures now include:
ASL Australia and Qulijet India
Increased Flights, Block Hours and Passengers Carried

Additional Elements
Scope 1 Comparison with 2022
2 Additional Airlines +3.09% tCO₂e
Less SAF Available +0.03% tCO₂e
More Passenger +1.36% tCO₂e
More Flying +1.07% tCO₂e
Less Freight -0.78% tCO₂e
+8.16% tCO₂e

2022 FLIGHT STATS
Flights 104,988
Hours Flown 172,474
Freight Tons 911,735
Passengers 6,900,000

2023 FLIGHT STATS
Flights 114,064 +7.8%
Hours Flown 231,750 +45.21%
Freight Tons 825,228 -9.49%
Passengers 8,400,000 +21.74%

tCO₂e emissions per BH decreased by 8.7%

TOTAL 2023 EMISSIONS

SCOPE 1
Direct Emissions
2,017,434
+5.16%
*Additional Flying
99% of emissions from the consumption of Jet-A1 fuel

SCOPE 2
Indirect Emissions Purchased Energy
2,022
- 11.6%

SCOPE 3
Indirect Emissions Purchased Services
442,470
- 6.59%

OVERALL TREND
POSITIVE
Emissions Reducing

ENVIRONMENTAL SUSTAINABILITY ACHIEVING NET-ZERO EMISSIONS

ASL Airlines Awarded the FedEx Bravo Zulu – Fuel Sense Award

In 2022, ASL's European airlines started working on several initiatives to reduce fuel consumption and, consequently, CO₂ emissions. Each airline was at different stages of operational efficiency, but by mid-2023, everyone was aligned, and several initiatives had been implemented.

- Delayed APU start,
- Single-engine taxiing,
- Reference payload for flight planning,
- Cost index reduction,
- Commercial Alternate Policy Review,
- NADP2

Bravo Zulu

This represents a potential yearly saving of up to 8,000 tonnes of fuel and 16,000 tonnes of CO₂ emissions for ASL alone.

The extraordinary work carried out by all the airlines has not gone unnoticed by our major customer, FedEx, who has recognised our extraordinary achievements by awarding ASL, ASL and ASL staff the 'Bravo Zulu – Fuel Sense Award'.

This award recognises the outstanding 'Operational Performance and Fuel Efficiency' achievements by the airlines and the work done by the ones implementing the projects but also the ones keeping them alive every day, be it in the office or in the cockpit.

ASL To Buy 20 Zero Avia Hydrogen-Electric Engines

Zero Avia announced that ASL Aviation Holdings has signed a conditional purchase agreement for up to 20 hydrogen-electric engines for retrofit into its operated fleet of ATR regional turboprop aircraft – creating some of the world's first zero-emission freight aircraft of this scale.

The firm order of 10 engines, with a further option for up to another 10 and an agreement related to retrofit services, builds on an earlier MOU between the two companies announced in November 2021.

Hydrogen-electric engines use fuel cells to convert hydrogen fuel into electricity using an electrochemical reaction.

Overall, it is estimated that fuel cell systems in aircraft could reduce in-flight emissions by around 90%.

ASL AVIATION HOLDINGS ESG REPORT SNAPSHOT

MAKING A DIFFERENCE

Energy Switch

Move To Energy-Efficient Fluorescent Fixtures Replacing Traditional Lighting Systems in Offices And Hangars

Reduction In Electricity And Heat

-11.86%

Solar Panels

ASL Airlines Belgium
580 Solar Panels
1159 square metres
580x420 kWh
245kW of power on sunny days

16% green energy

Carbon Intensity

970 tCO₂e/FTE (Full Time Employee)

Reduced to 630 tCO₂e/FTE

Down 54% to 340 tCO₂e

B737-800BCF Fleet Renewal Programme

B737NG Aircraft CO₂ Reduction Versus B737Classic

15%

3R's Project

Reduce, Reuse, Recycle Introduced Across ASL Group

Aim To Minimise Waste Generation, Maximise Resource Efficiency

Inspire Positive Change in Our Workplace And Beyond.

Aimed At Fostering a Culture of Mindfulness And Responsibility

Other Initiatives

Ban On Single Use Plastics

New Recycling Facilities In All ASL Entities

Electric Power

ASL Airlines Belgium
38 EV charging stations installed

ASL Group/ASL Airlines Ireland
9 EV charging stations installed

ASL Airlines France
8 EV charging stations installed

Ban introduced on petrol and diesel ASL company vehicles

B737-800BCF

Introduced **7**

B737-800BCF in ASL Fleet

at End 2023 **38**

B737NG in ASL Fleet

at End 2023 **78**
Up 24 Aircraft

B737 Classics in ASL Fleet

at End 2023 **44**
Down 7 Aircraft

SAF
Qulijet operated its first SAF blended flight
In partnership with Amazon

Water

9.98 tCO₂e
Reduced to 115 tCO₂e

Down 8.83 tCO₂e

Renewable Electricity Generated

ASL generated **230,950 kWh**.

Renewable Energy

FlySafair reduced electricity consumption by **359 tCO₂e**

From 1576 tCO₂e to 1617 tCO₂e
By generating on-site renewable electricity

ASL's path to net-zero emissions

1. Lead the development of ASL CargoVision to become an enabler and industry voice for alternative and sustainable air cargo transport solutions.
2. ASL has endorsed the Toulouse Declaration, the joint public-private initiative that is intended as a prelude to the establishment of an EU Pact for Aviation Decarbonisation and as a support for ICAO's establishing a global goal for international aviation.
3. Implement the ASL commitment to the aviation industry's journey to net-zero emissions by 2050 including Destination 2050, the roadmap of aviation associations including the European Regions Airline Association (ERA) and IATA's Fly Net Zero commitment.
4. Support the objectives of the European Commission's 'Fit for 55' proposals while promoting discussion and consideration on issues of environmental and economic sustainability.
5. Engaging with suppliers and business partners on supply chain risks, environmental sustainability and ESG Performance.
6. Developing and implementing cooperative strategies with airline customers on sustainable aviation fuel (SAF) and fuel-saving initiatives.

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the Executive Management team of ASL Holdings

Signed on behalf of the Supplier:

A handwritten signature in black ink that reads 'R Somers'.

Robert Somers

Date: 12.09.24

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³<https://ghgprotocol.org/standards/scope-3-standard>