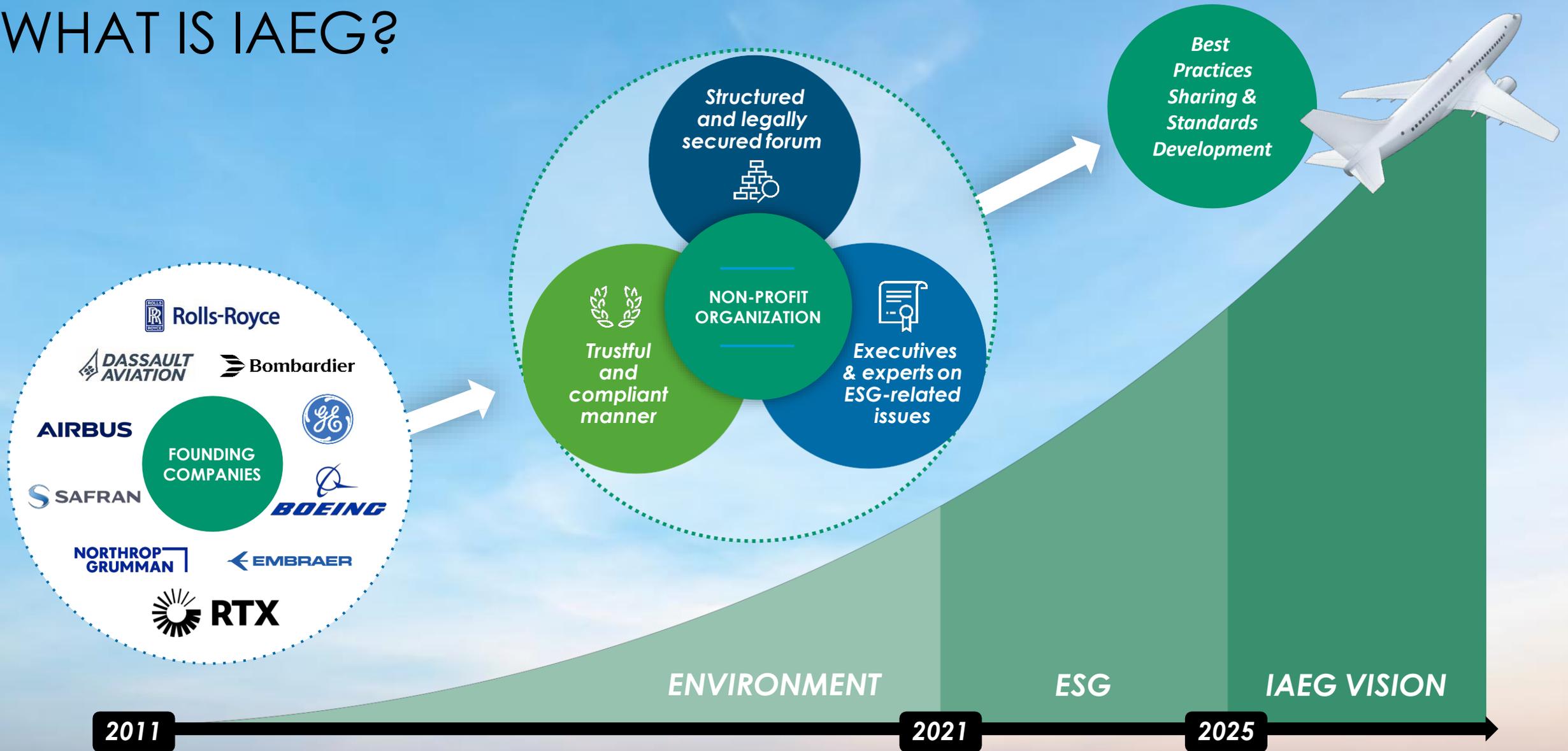


Introduction to IAEG®

International Aerospace Environmental Group®

WHAT IS IAEG?



DELIVER education, awareness and guidance for the industry

STRENGTHEN small and medium enterprise (SME) engagement

GENERATE transparency through data insight for the benefit of all

PRIORITIZE rapidly evolving global regulations and standards

ACT collaboratively to develop risk assessment tools

ADAPT through shared mitigation strategies



ANTICIPATE new reporting, social and environmental expectations

ADVANCE the maturity of the value chain on sustainability

FACILITATE industry actions to drive circular economy

PROMOTE activities to reduce greenhouse gas emissions

DEVELOP tools to report progress in a standardized manner

ENABLE strategies to improve value chain climate resilience

OUR VISION: A Sustainable Aerospace and Defense Industry

OUR VALUES:

CHAMPION
STANDARDIZED PRACTICES

PARTNER
WITH STAKEHOLDERS

ELEVATE
THE IMPACT OF IAEG

76

MEMBER
COMPANIES

69%

OF GLOBAL AEROSPACE & DEFENSE
INDUSTRY ARE IAEG MEMBERS

\$640B

COMBINED ANNUAL 2024 REVENUES
FOR IAEG (FULL) MEMBERS

\$922B

TOTAL GLOBAL AEROSPACE
INDUSTRY 2024 REVENUES

IAEG Full Members (43)

Airbus
ATR
BAE Systems
Boeing
Bombardier
CAE
Dassault Aviation
De Havilland Aircraft of Canada Limited
Deutsche Aircraft
Diehl Aviation Holding
Eaton
Embraer
GE Aerospace
GKN Aerospace
Gulfstream
Henkel
Hexcel Corporation
Honeywell
Howmet Aerospace
Huntsman Advanced Materials
IHI Corporation
Israel Aerospace Industry, Ltd.
ITP Aero
L3Harris Technologies, Inc.
Leonardo
LIEBHERR-Aerospace & Transportation
Lockheed Martin
MBDA
Moog Inc.
MTU Aero Engines
Northrop Grumman
Parker Hannifin Meggitt
RTX
Rolls-Royce

SAAB AB
SAFRAN
Socomore
Sonaca
Spirit AeroSystems
Syensqo
Textron, Inc.
Thales
Woodward

IAEG Liaison Members (33)

Accenture
AerCap Materials
AFRA
Airbus Canada
Airbus Defence and Space
Airbus Helicopters
ANSYS UK Limited
ASD Europe
Assent Inc.
BSI Group
Capgemini
Daher
Dassault Systems Enovia Corp
Deloitte
DuPont
DXC Technology
Expleo
GIFAS
Haley & Aldrich
Hangsterfer's Laboratories, Inc.
Noblis
Ramboll Environment & Health
Risk & Policy Analysts Ltd
SAFECEM Europe GmbH
Scalian
SLR Consulting
Sopra Steria
Source Intelligence
TARMAC Aerosave
Toray Advanced Composites
Trio
Yordas Group
3M Deutschland GmbH

IAEG GOVERNANCE & WORKING GROUPS

Chair: Christopher Lines, *Leonardo*
 Vice Chair: David GRAEBER, *Boeing*

Board of Directors

Representatives from:

Airbus, BAE Systems, Bell Flight-Textron, Boeing, Bombardier, CAE, Dassault Aviation, Eaton, Embraer, GE Aerospace, Howmet Aerospace, L3 Harris Technologies, Leonardo, Lockheed Martin, Northrop Grumman, RTX, Rolls-Royce, Safran, Socomore, Thales

Executive Committee

Legal
Counsel

AMC & SAE
Support

 Materials and Substances Declaration <u>WG1</u> Mussie PIETROS Lucy REINBOLD <i>GE Aerospace RTX</i>	 Replacement Technologies <u>WG2</u> Michelle McELVAINE Olivia BYRNE <i>Boeing Boeing</i>	 Greenhouse Gas Reporting <u>WG3</u> Liling REN Chris ESBESTER <i>RTX BAE Systems</i>	 Glossary <u>WG4</u> Julien Rollier Damien Labadie <i>CAE Scalian</i>	 REACH Authorization <u>WG5</u> Joe MCCARTHY Michelina MOLONGOSKI Abhishek KULKARNI <i>Leonardo RTX Boeing</i>	 ISO 14001 and EMS Maturity Framework <u>WG7</u> Cindy KLOEHN Denny Lerch <i>Airbus Haley & Aldrich</i>
 Emerging Regulations <u>WG9</u> Lisa BROWN <i>Lockheed Martin</i>	 Aerospace Industry ESG Engagement <u>WG11</u> Mark WALKER Ashley RUBINSKY <i>Airbus Lockheed Martin</i>	 Life Cycle Assessment <u>WG12</u> Ana Garcia Garraga Olivier GRELLOU <i>Collins Aerospace Airbus</i>	 100% Paraffinic SAF Compatibility Collaboration <u>WG13</u> Bill Griffin Jey WILLIAMS <i>Boeing Airbus</i>	 Circular Economy <u>WG14</u> Christin DATZ Margaret PROUL <i>Boeing Eaton</i>	

WG
Support

More than 1000 people share best practices, standards & innovative solutions

BOARD OF DIRECTORS | EXECUTIVE COMMITTEE



Christopher LINES
LEONARDO
Chair and SPC Co-Chair



David GRAEBER
BOEING
Vice-Chair



Matt PAYNE
ROLLS ROYCE
COO



Kathleen OLDHAM
BELL FLIGHT
Comms. Officer



Heather DANIELS
LOCKHEED MARTIN
Treasurer and SPC Co-Chair



Mónica GALISTEO PUYUELO
HOWMET
Secretary



Andreas Hermann
AIRBUS



Deborah ALLEN
BAE SYSTEMS



Paul MICHAUD
BOMBARDIER



Hélène V. GAGNON
CAE



Sarah VONACH
DASSAULT AVIATION



Heinz HUESMANN
EATON



Andre LUIZ TACHARD
EMBRAER



Geraldine BARNUEVO
GE AEROSPACE



Costa TRIANTAFYLIDIS
L3 HARRIS TECHNOLOGIES



Brodie DAVIS
NORTHROP GRUMMAN



Annette MCNEELY
RTX



Solenn MADEC
SOCOMORE



Nathalie STUBLER
SAFRAN



Caroline GIBON
THALES



WHY JOIN IAEG...?

... TO ADDRESS CLIMATE CHANGE (WG3 & WG13)



GHG Emission Reporting Guidance (WG3)

- Scope 1 & Scope 2
- Scope 3
 - Cat 1 – Purchased Goods & Services
 - Cat 11 – Use of Sold Products



Reporting Tool and Training Material (WG3)

- Purchased Goods & Services and Capital Goods
- Fact Sheets and Webinars



Other Sub-Teams (WG3)

- Use of Sold Products-Military
- Science-Based Targeting
- Space Applications



100% SAF Compatibility (WG13)

- Assess compatibility with a focus on "non-drop-in" SAF
- Determine gaps in industry infrastructure readiness to support "non-drop-in" SAF
- Monitor and engage on current efforts to approve the new standard for 100% synthetic "drop-in" SAF



Guidance for Calculating Civil Aviation Scope 3 Emissions: Category 11 – Use of Sold Products

01 June 2023
Version 1

This document is released for purpose of supporting companies for the calculation of their Scope 3 Category 11.

Any further distribution or use requires the written consent of IAEG in accordance with our copyright statement below.

© 2023 IAEG®

The International Aerospace Environmental Group® ("IAEG®") is the owner of this material. This material may not be used for any purpose other than that for which it is provided without the express written consent of IAEG®. This material is provided without representations or warranties. IAEG® will accept no liability for any damages from any use of this material including without limitation any direct, indirect, incidental, special and consequential damages, loss of data, income, profit or goodwill, loss of or damage to reputation or other of third parties. IAEG® reserves the right to modify or discontinue this material at any time without notice.



GREENHOUSE GAS (GHG) MANAGEMENT & REPORTING



Have a voice in promoting the development of voluntary consensus standards addressing environmental concerns



WHY JOIN IAEG...?

... TO DRIVE MATERIALS STEWARDSHIP



Materials & Hazardous Substances Reporting (WG1)

- Declarable Substances list (AD-DSL)
- Substance Reporting Tool (AD-SRT)
- Materials and Substances Declaration (IPC 1754 - ISO 82474)
- Training Material



Replacement Technology (WG2)

- R&D collaboration to replace hazardous substances
- Bond Primers, Cadmium Plating, Chromate Conversion Coatings, Corrosion-Inhibiting Primers, Fuel Tank Coatings



EU & UK REACH Authorization (WG5)

- Evaluate Risk for Supply Chain Disruption due to ever evolving REACH Regulations (eg: BPA, PFAS...)
- Establish common folders



Global Emerging Regulations (WG9)

- Monitoring Emerging Environmental Regulations across 50 Countries
- Regulatory Alerts
- Monthly Newsletters



IAEG® WG2 - Integral Fuel Tank Coating Product Requirements Document

31 May 2023
Version 01





WHY JOIN IAEG...?

... TO FOSTER SUSTAINABILITY AND ENGAGE SUPPLY CHAIN

Glossary (WG4)

- Re-established in 2025
- Updating and maintaining the IAEG Glossary

ISO 14001 and EMS Application (WG7)

- ISO 14001: 2015 Implementation Guide
- Multi-Levelled EMS Maturity Framework Based in ISO 14001 for SMEs Suppliers
- Implementation guides

Aerospace Industry ESG Engagement (WG11)

- Contract with EcoVadis as a Voluntary Reusable ESG Protocol
- Possible discounts for IAEG members
- Score Cards for Customers, Suppliers and Industry
- Industry Effort to Educate and Improve the Global Aerospace Supply Chain on ESG topics
- ESG Global Sectoral assessments

Life Cycle Assessment (WG12)

- Inform design choices & Accelerate WayPoint 2050
- Support EPD & align with emerging regulations
- Build consistency & stakeholder confidence

Circular Economy (WG14)

- Establish industry priorities and identify regulation landscape
- Define calculation methodologies and standards needs
- End-of life management best practice sharing and marketplace development

[And more...](#)

ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEM IMPLEMENTATION (AT A GLANCE)

BACKGROUND
Many small and medium sized business may not feel prepared, or have the level of resources necessary to implement all requirements of ISO 14001 for Environmental Management System (EMS) conforming to the Standard.

OBJECTIVE
Encourage the wider uptake of EMS at an appropriate level based on business size and requirements, risk and support, consistent and supportive partners.

FOUR MATURITY LEVELS
with EMS requirements at each level

BENEFITS
IMPROVE ENVIRONMENTAL PERFORMANCE
REDUCE COSTS
SUPPORT BUSINESS CONTINUITY
CAPTURE AND RESPOND TO OPPORTUNITIES
MANAGE ENVIRONMENTAL RISKS
IDENTIFY AND MITIGATE ENVIRONMENTAL RISKS

EMS MATURITY FRAMEWORK
Consists of a phased approach to ISO 14001 requirements and Key Performance Indicators for the aerospace supply chain.

FOUNDATION
LEADING
ADVANCED
WORLD-CLASS

A COMPANY SHOULD ASSESS
its level of EMS maturity to benchmark its performance and risk profile.

IAEG ESG Requirements

Member | **Supplier** | **Assessor** | **Supplier** | **Member** | **IAEG**

Relative improvement process

- Set goals
- Answer survey
- Desk top audit
- Third party evidence
- Learning Resources
- Load evidence

Tailored Risk Management

ESG Maturity Improvement Actions

Supplier Dashboards | Customer Dashboards | Sector Dashboards

Aerospace Industry ESG Engagement (WG11)

Establish ESG assessment that includes risk based validation of assessment results for voluntary and optional accreditation and use by transaction partners.

Driving continuous improvement of Aerospace Industry ESG performance through awareness campaigns for their supply chain.

2022 Accomplishments

- Launched WG11 in February
- Engaged membership in week of action to build the 2022 plan
- Developed requirements for reusable sustainability assessments
- Developed the stakeholder value proposition
- Held our first ESG engagement webinars
- Selected a vendor to provide IAEG reusable sustainability assessments

2023 Goals

- Roll out IAEG reusable sustainability assessments
- Start building the IAEG sector level ESG dashboard
- Travel sector level ESG requirement opportunities
- Roll out ESG engagement webinars and events support IAEG members

PHILL GOOPREY
Technical Technology Work Group 11 Co-Leader

WARR WILKINER
Risk Work Group 11 Co-Leader

We are all about Environmental, Social and Governance (ESG) engagement on made to sector level progress. IAEG offers a unique opportunity to collaborate compliance on issues that affect the aerospace sector. Work Group 11 has made a head start in 2022 and selected a vendor to power its Reusable Sustainability Assessments. I am excited to see what more we can achieve together in 2023.

The level of interest and support from existing and new IAEG members has been great and underlines the growing importance of ESG for our sector. Having written and completed the first chapter of our journey together in 2022, I'm really looking forward to engaging with everyone to write the rest of our book to help define our future.

MEMBERSHIP ELIGIBILITY DETERMINATION

1

Principally engaged in carrying out design, manufacture or support of civilian or military aerospace original equipment, systems, or structures of aircraft, rotorcraft, satellites and/or space exploration vehicles;

2

Major Supplier earning at least \$100 million in annual revenues as a supplier to Aerospace Companies; or

3

Supplier, regardless of the total revenue, having at least 80% of its annual revenue from Aerospace Companies.

2025 Annual Membership Fees

IAEG® Full Member

If at least one of the above criteria applies, and the applicant is NOT a subsidiary of a company already a Full Member of IAEG®

- | | |
|---|----------|
| • > \$10B average annual revenue (for the last 3 years, based on exchange rates December 31 st) | \$29,349 |
| • < \$10B average annual revenue (for the last 3 years, based on exchange rates December 31 st) | \$22,012 |

IAEG® Liaison Member

If neither of the above bullets apply or applicant is a subsidiary of a company already a Full Member of IAEG®

- | | |
|--|---------|
| • Companies with >50 employees, >\$10M annual turnover and >\$10M balance sheet and trade associations with >250 members and >\$2M annual budget | \$7,338 |
| • Small companies with either <50 employees, <\$10M annual turnover or <\$10M balance sheet and small trade associations with either <250 members or <\$2M annual budget | \$3,669 |

MEETINGS AND WAY OF WORKING



IAEG Compliance Training *(Semi-monthly for new member company representatives)*



Work Groups *(Weekly or Monthly / Remote)*



All-Members Progress Review *(Monthly / Remote)*



Committees *(Monthly or Quarterly / Remote and F2F)*



Board *(Quarterly / Remote and F2F)*



Spring and Fall Face-to-Face *(5 Days each)*

- Work Groups – 3 days intensive collaboration
- Board and Committee mtgs
- Best Practice Sessions
- External speakers



IAEG ACKNOWLEDGEMENTS



SAVE THE DATE | Spring F2F MEETING

April 20-24, 2026

Seattle, Washington

For more information,
please see IAEG website:
<https://www.iaeg.com/>

OR
CONTACT

questions@iaeg.com



IAEG members are united in tackling the environmental challenges facing our industry. Through strong collaboration, IAEG is advancing its vision for a sustainable aerospace and defence sector via dedicated working groups focused on climate action, promoting sustainability, materials stewardship, and supply chain engagement.

-- Christopher Lines | IAEG Chairman





IAEG[®]

INTERNATIONAL AEROSPACE
ENVIRONMENTAL GROUP[®]