



Introduction to IAEG®

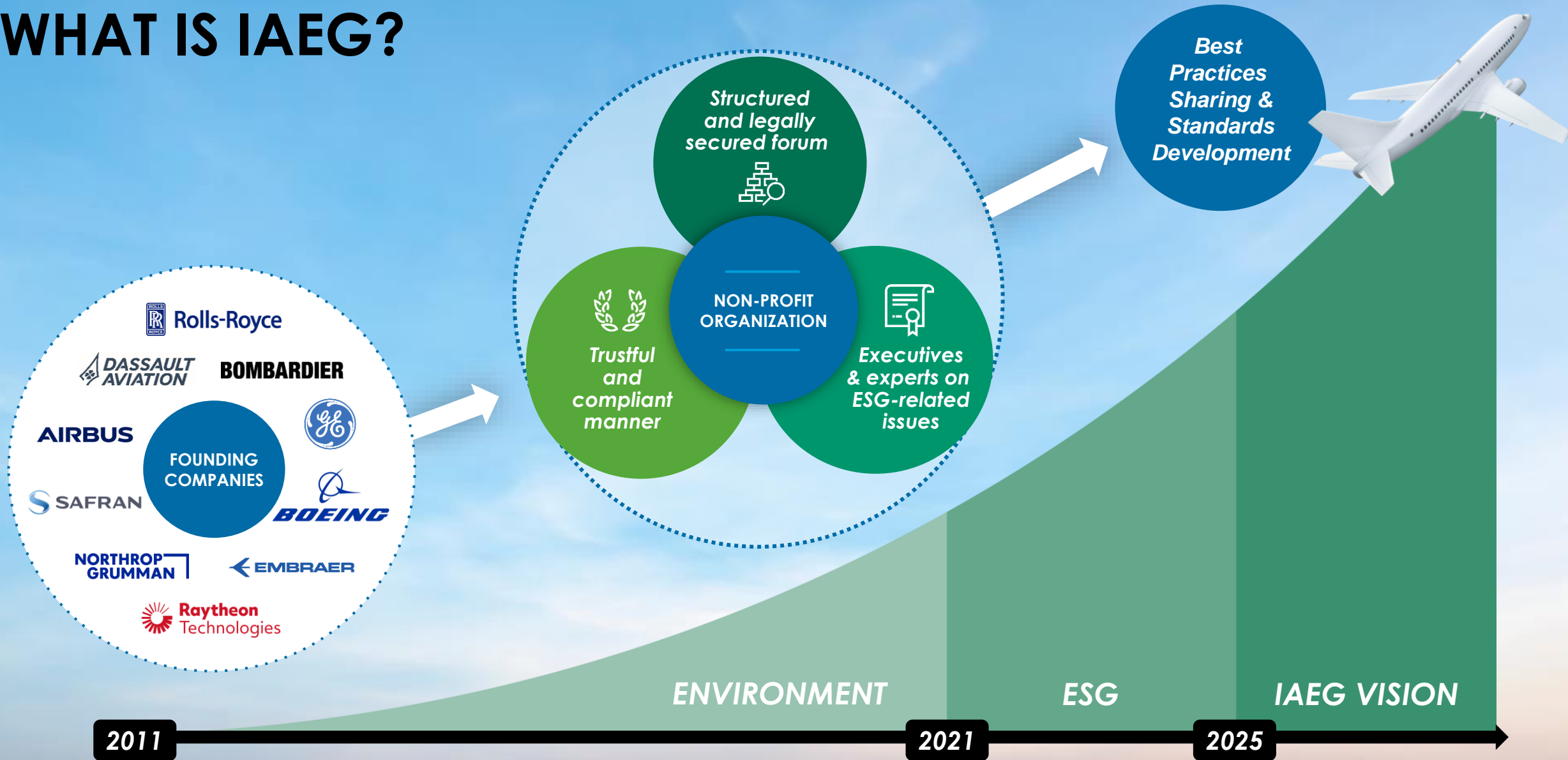
International Aerospace Environmental Group®

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Rev Jun 24

WHAT IS IAEG?





LEADING EDGE
SOLUTIONS
ACROSS THE
VALUE CHAIN



RESPONSIBLE &
SUSTAINABLE
AEROSPACE
INDUSTRY

A RECOGNIZED GLOBAL BODY FOR AEROSPACE & DEFENSE

65 MEMBER COMPANIES

70% OF GLOBAL AEROSPACE & DEFENSE INDUSTRY ARE IAEG MEMBERS

\$591B COMBINED ANNUAL 2023 REVENUES FOR IAEG (FULL) MEMBERS

\$829B TOTAL GLOBAL AEROSPACE INDUSTRY 2023 REVENUES

IAEG Full Members (39)

- Airbus
- ATR
- BAE Systems
- Boeing
- Bombardier
- CAE
- Dassault Aviation
- De Havilland Aircraft of Canada Limited
- Diehl Aviation Holding
- Eaton
- Embraer
- GE Aerospace
- General Atomics
- GKN Aerospace
- Gulfstream
- Henkel
- Hexcel Corporation
- Honda Aircraft Company, LLC
- Honeywell
- Howmet Aerospace

- Huntsman Advanced Materials
- Israel Aerospace Industry, Ltd.
- L3Harris Technologies, Inc.
- Leonardo UK Ltd.
- Liebherr Aerospace Toulouse
- Lockheed Martin
- MTU Aero Engines
- Northrop Grumman
- Ontic
- Praxair Surface Technologies, a Linde Co.

- RTX
- Rolls-Royce
- SAAB AB
- SAFRAN
- Socomore
- Spirit AeroSystems
- Syensqo
- Textron, Inc.
- Thales

IAEG Liaison Members (26)

- Aero Montreal
- AFRA
- Airbus Canada
- Airbus Defence and Space
- Airbus Helicopters
- ANSYS UK Limited
- Assent Inc.
- BSI Group
- Capgemini
- Dassault Systems Enovia Corp
- DXC Technology
- eCube
- Haley & Aldrich
- Hangsterfer's Laboratories, Inc.
- Noblis
- PTC
- Ramboll Environment & Health Risk & Policy Analysts Ltd
- SAFECHEM Europe GmbH
- Scalian
- Sopra Steria
- Souriau SAS
- Tetra Tech
- Toray Advanced Composites
- Yordas Group
- 3M Deutschland GmbH

IAEG GOVERNANCE & WORKING GROUPS

Legal
counsel

Chair: Bruno COSTES, *Airbus*
Vice-Chair: David GRAEBER, *Boeing*

Board of Directors

Representatives from:

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

Executive Committee

Executive
Director
(AMC)



Materials and
Substances
declaration

WG1

Mussie PIETROS | Lucy REINHOLD
GE Aerospace | RTX



Replacement
technologies

WG2

Michelle McELVAINE | Olivia BYRNE
Boeing | Spirit Aerospace



REACH
Authorisation

WG5

Joseph MCCARTHY | Abhishek KULKARNI
Michelina Molongoski
Leonardo | Boeing | Raytheon



Greenhouse Gas
Reporting

WG3

Matt PAYNE (Board Sponsor)
Rolls-Royce

ISO
14001

ISO 14001 and EMS
implementation

WG7

Cindy KLOEHN
Airbus



Emerging
regulations

WG9

Lisa BROWN | Michel RENAULT
Lockheed Martin | Thales



Aerospace Industry
ESG Engagement

WG11

Mark WALKER | Ashley RUBINSKY
Airbus | Lockheed Martin



Life Cycle
Assessment

WG12

Phill GODFREY | Olivier GRELOU
Collins Aerospace-RTX | Airbus



100% Paraffinic SAF
Compatibility
Collaboration

WG13

Dean COX | Jey WILLIAMS
Boeing | Airbus



Circular Economy

WG14

Sandra SASSONE | Christin DATZ
Airbus | Boeing

External
Support

More than 800 people share best practices, standards & innovative solutions

BOARD OF DIRECTORS

EXECUTIVE COMMITTEE



Bruno COSTES
AIRBUS
Chair



David GRAEBER
BOEING
Vice-Chair



Christopher LINES
Leonardo
Strategic Planning Committee Co-Chair



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ROLLS ROYCE
COO



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HOWMET
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Frédéric ROUMEGOUX
AIRBUS



Deborah ALLEN
BAE SYSTEMS



Ryan FAUCETT
BOEING



Paul MICHAUD
BOMBARDIER



Sean JOHNSON
BOMBARDIER



Hélène V. GAGNON
CAE



Sarah VONACH
DASSAULT AVIATION



Fabienne FAURRE
DASSAULT AVIATION



Andre LUIZ TACHARD
EMBRAER



Venancio NETO
EMBRAER



Geraldine BARNUEVO
GE AEROSPACE



Rachel BECKER
GE AEROSPACE



Costa TRIANTAFYLIDIS
L3 HARRIS TECHNOLOGIES



Brodie DAVIS
NORTHROP GRUMMAN



Stanley MERRITT
NORTHROP GRUMMAN



Josh FREDERICKSON
RTX



Sally GESTAUTAS
RTX



Ian BENTLEY
ROLLS-ROYCE



Emilie HERNY
SAFRAN



Nathalie STUBLER
SAFRAN



Caroline GIBON
THALES



WHY JOIN IAEG...?

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




GHG Emission Reporting Guidance

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



Reporting Tool

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



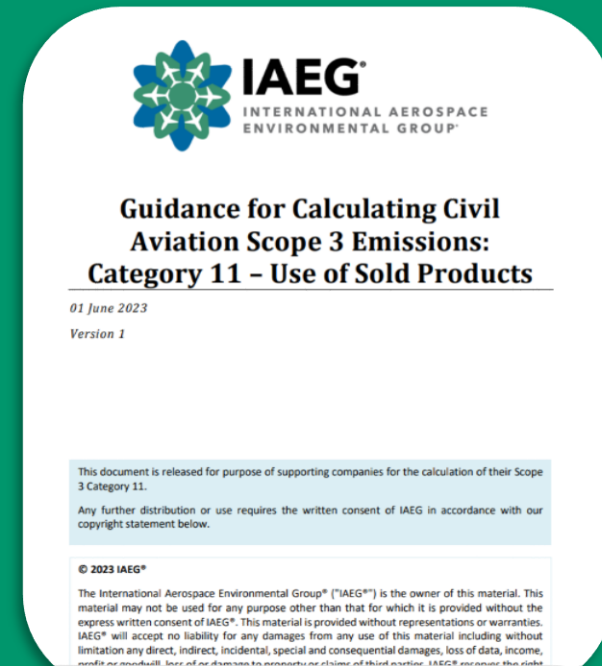
Other Sub-Teams (WG3)

- 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



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



WHY JOIN IAEG...?

... TO CHAMPION CHEMICAL STEWARDSHIP



Materials & Hazardous Substances Reporting (WG1)

- Declarable Substances list (AD-DSL)
- Materials and Substances Declaration (IPC 1754 - ISO 82474)
- Associated Training Material



Replacement Technology (WG2)

- R&D collaboration to replace hazardous substances
- Cadmium Plating Replacement, Bonding Primers



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



Participate in a forum for dialog on industry optional approaches for implementation of environmental requirements



WHY JOIN IAEG...?

... TO FOSTER SUSTAINABILITY AND ENGAGE SUPPLY CHAIN

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



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 workshop
- Selected a vendor to power IAEG reusable sustainability assessments

2023 Goals

- Roll out IAEG reusable sustainability assessments
- Start building the IAEG sector based ESG dashboard
- Target sector level ESG improvement opportunities
- Roll out ESG engagement website and events beyond IAEG members

[And more...](#)

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.

2024 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)	\$26,650
• < \$10B average annual revenue (for the last 3 years, based on exchange rates December 31 st)	\$19,965

IAEG® Liaison Member

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

\$6,655

MEETINGS AND WAY OF WORKING



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



Work Groups (Weekly or Monthly / Remote)



All-Members Progress Review (Monthly / Remote)



Executive Committee (Monthly / Remote)



Board (Quarterly / Remote)



Spring and Fall Face-to-Face (4 Days each)

- Work Groups – 3 days intensive collaboration
- Best Practices Sessions
- Plenary Session – 1 day with external speakers
- Board and Committee meetings



IAEG ACKNOWLEDGEMENTS



SAVE THE DATE | FALL F2F MEETING

September 30 – October 4, 2024

Madrid, Spain

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

OR
CONTACT

**Michele Lawrie-Munro –
Executive Director**
mlawriemunro@iaeg.com



The world as we know it today is changing rapidly. The decarbonization and digitalization of our sector may induce deep changes to our production methods, in our habits and in our mobility in the future. Many member companies are investing to reduce the environmental impact of industry activities and of products throughout their life cycle. We therefore believe, more than ever, in a sustainable aviation and space industry that is both clean and carbon-neutral. Today we are counting on you, even more than before, to be pioneers of sustainable aviation for a safe and united world.



-- Bruno COSTES | Chairman



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ENVIRONMENTAL GROUP[®]