



IAEG[®]

INTERNATIONAL AEROSPACE
ENVIRONMENTAL GROUP[®]

Introduction to IAEG

International Aerospace Environmental Group

September 2017

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- Trade association formed by major aerospace companies
- Focused on the multitude of global laws and regulations impacting health and the environment
- Formed to address the complexity and variability of these requirements and associated impact on the Aerospace industry (Civil & Defense) and its supply chain
- Seeks to drive continual improvement in the processes used by the industry, thereby delivering consistently high quality products and regulatory compliance with reduced environmental impacts

IAEG formally incorporated June 2011

Mission & Vision



Vision:

To advance innovative environmental solutions for the aerospace industry

Mission:

We are the leading global aerospace forum for sharing good practices concerning key issues and developing voluntary consensus standards around the environment

IAEG in numbers



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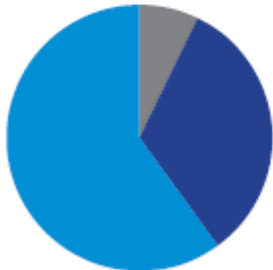
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REVENUE FOOTPRINT

**\$400
BILLION**

OUT OF AN APPROXIMATE
\$700 BILLION
INDUSTRIAL BASE*

US EU OTHER



EMPLOYMENT FOOTPRINT

SLIGHTLY OVER
1 MILLION



OUT OF A ROUGHLY
2 MILLION
INDUSTRIAL BASE*

SOLUTIONS

COMPLEX AND
INNOVATIVE PRODUCTS
THAT LAST

DECADES



IN THE MARKETPLACE

Why IAEG?



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Working together for the aerospace industry

Organizational Set-up

- 25 Board members
- Officers:
 - Chair
 - Vice Chair
 - Chief Operating Officer
 - Treasurer
 - Secretary
 - Business Administration
 - Communications Officer
- Procures necessary administrative and professional services
- Establishes Work Groups to address substantive solutions

Founding Members

AIRBUS  **BOEING**

BOMBARDIER  **DASSAULT**
the evolution of mobility AVIATION

 **EMBRAER**

NORTHROP GRUMMAN

 **SAFRAN**
AEROSPACE · DEFENCE · SECURITY



Rolls-Royce

 **United**
Technologies

ZODIAC
AEROSPACE 

Members



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3M Deutschland GmbH

Airbus

Airbus Defense & Space

Airbus Helicopters

Arconic

Assent Compliance

BAE Systems

Bergeson & Campbell, PC

Boeing

Bollore Logistics

Bombardier Aerospace

Bureau Veritas Certification France

Cobham plc

Dassault Aviation

Dassault Systemes

Enovia Corp

Embraer

ERM

GE Aviation

GKN Aerospace Engine Systems

Granta Design Ltd

Gulfstream

Hangsterfer's Laboratories Inc

Harris Corp

Hewlett Packard

Honeywell

Huntsman Advanced Materials

iPoint Systems GmbH

Israel Aerospace Industry Ltd

Lockheed Martin

Meggitt PLC

Mitsubishi Aircraft Co

National Quality Assurance

Northrop Grumman

Raytheon

Rockwell Collins

Rolls-Royce

SAAB AB

SAFECHEM Europe GmbH

SAFRAN

Spirit Aero Systems

SR Technics Switzerland Ltd

STELIA Aerospace

SurTec International GmbH

Tetra Tech Inc

Textron Aviation

Thales

United Technologies Corporation (UTC)

Zaki Surface Treatment Consulting

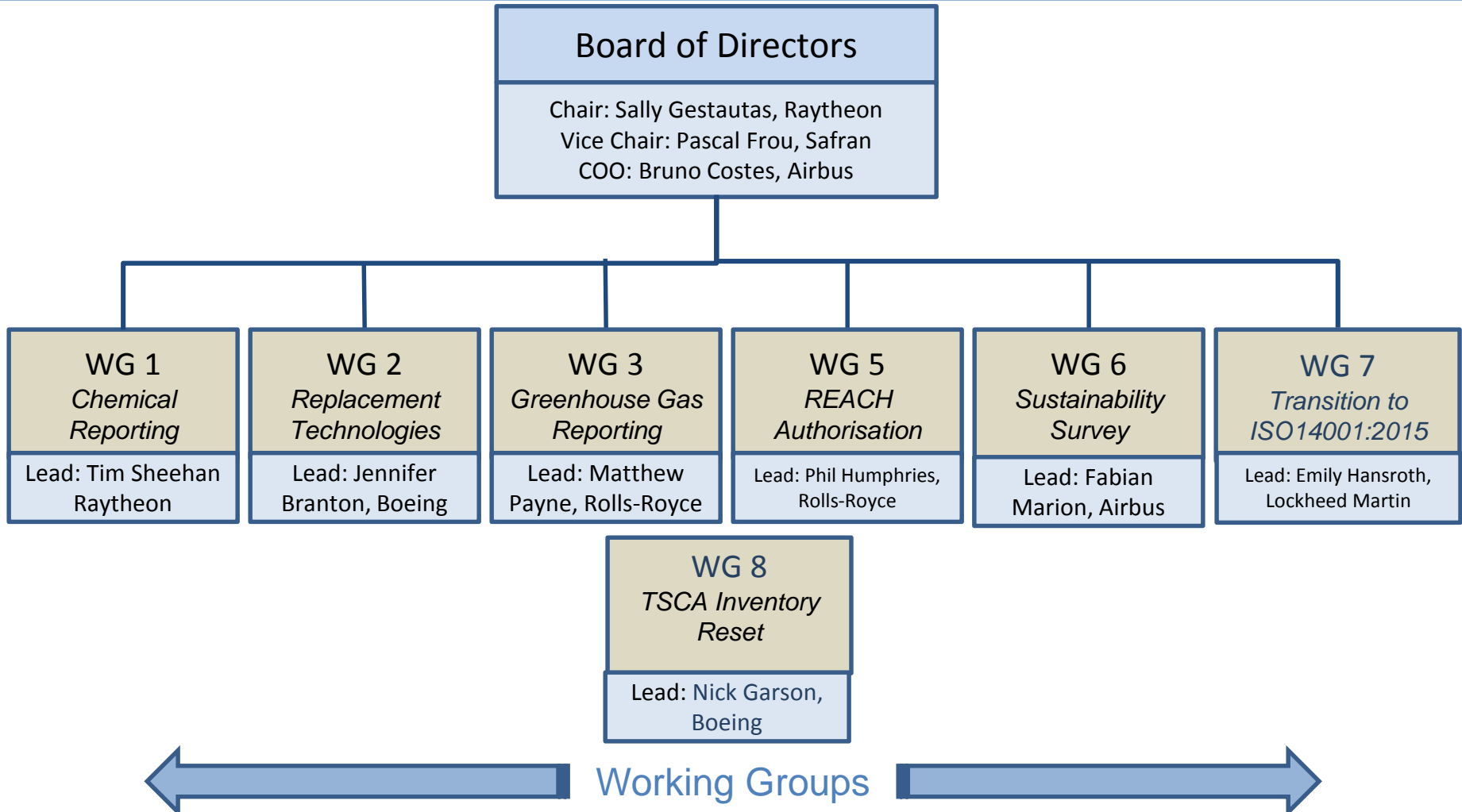
Zodiac Aerospace

IAEG at a glance



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Global Aerospace Industry; One Common Approach

Current Working Groups



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1. Chemical Reporting
2. Replacement Technologies
3. Greenhouse Gas Reporting
4. **REACH Authorisation –
*subscription only***
5. Sustainability Survey
6. Transition to ISO14001:2015
7. TSCA Inventory Reset

Governance:

- Board Member Sponsor
- Charter
- Work plan
- Budget
- Agreed Deliverables
- Regular Board Review and Approval

Global Aerospace Industry; One Common Approach

Chemical Reporting

- ✓ Developed Declarable Substances List : AD-DSL V2
- ✓ Identified data element requirements
- ✓ Engaging with IPC on AD materials declaration standard publication
 - Promoting implementation/use of AD chemicals data exchange process

REACH Authorisation

- ✓ Evaluating Supply Chain surveillance information
- ✓ Launched an independent cost sharing consortium for dossier development

Replacement technology

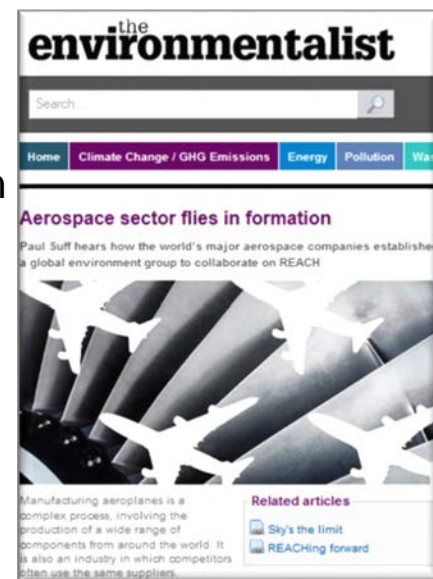
- ✓ Establishing a platform for industry research and development collaboration

REACH Registration 2018

- ✓ Industry communication developed

TSCA Inventory Reset

- ✓ Evaluating industry approach to comply with new TSCA rule



Significant progress made

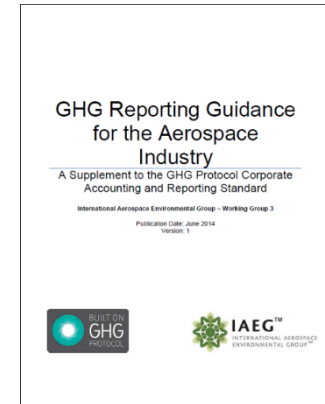
Environmental management & Supply chain engagement



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Greenhouse gas reporting

- ✓ Developed voluntary industry standard
- ✓ Submitted and approved by the World Resources Institute (WRI)
- ✓ Industry guidance for WRI greenhouse gas reporting standard published



Harmonized Environmental Sustainability Questionnaire

- ✓ New voluntary industry methodology in work
- ✓ Released Q1 2017

SCORES OR COMMENT	Additional questions/requirements	Comments
DO YOU HAVE A CODE OF CONDUCT OR CORPORATE POLICY THAT INCLUDES ENVIRONMENTAL COMPONENTS, AND AT A MINIMUM REQUIRES COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL LAWS AND REGULATIONS?		
<input type="checkbox"/> No	<input type="checkbox"/> Yes	
DO YOU HAVE A SUPPLIER CODE OF CONDUCT OR SUPPLIER POLICY THAT INCLUDES ENVIRONMENTAL COMPONENTS, AND AT A MINIMUM REQUIRES COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL LAWS AND REGULATIONS?		
<input type="checkbox"/> No	<input type="checkbox"/> Yes	
II. SUB-TIER SUPPLIER ENVIRONMENTAL PERFORMANCE MANAGEMENT (select one response per question)		
a. Do you specify environmental requirements down to your suppliers?		
<input type="checkbox"/> No	<input type="checkbox"/> Yes	
b. Specify environmental requirements down to your suppliers when contractually required to do so from the Customer		
<input type="checkbox"/> None of our suppliers	<input type="checkbox"/> Most of our suppliers	
<input type="checkbox"/> All of our suppliers	<input type="checkbox"/> All of our suppliers	
III. MANAGEMENT SYSTEM (select one response per question)		
a. No regulatory watch		
Please select the phrase that best describes how you monitor and review existing and emerging regulations:		
<input type="checkbox"/> A regulatory watch is done, but no compliance evaluation has been done	<input type="checkbox"/> A regulatory watch and a compliance evaluation are done	
<input type="checkbox"/> A regulatory watch is done, and action plans are implemented for non-compliance	<input type="checkbox"/> A regulatory watch and a compliance evaluation are done, and action plans are implemented for non-compliance	
b. If a regulatory watch is done:		

Transition to ISO 14001:2015

- ✓ Developed voluntary transition document
- ✓ Training through Webinar available



Common Industry Vocabulary available at www.iaeg.com



***Northrop Grumman
Alexandria, Virginia, USA
2017 Spring Face-to-Face***

2017 meetings:

3-7 April 2017

Northrop Grumman Corporation
Washington DC, USA

23-26 October 2017

Safran
Pau, France

New members are welcome



- Interested parties may contact;
 - Sally Gestautas– Chair smgestautas@raytheon.com
 - Pascal Frou – Vice Chair pascal.frou@safran.fr
 - Bruno Costes – COO bruno.costes@airbus.com
 - Steve George – Treasurer steve.george@rolls-royce.com
 - Rachel Becker – Business Administration rachel.becker@ge.com
 - Thomas Wilcox– Secretary thomas.j.wilcox@boeing.com
 - Jill Palmer – Communications Officer jill.palmer@ngc.com
 - Christer Hellstrand – Program Director chc_llc@Hotmail.com
- **IAEG Website:** <http://www.iaeg.com/>

Membership Eligibility Determination



		YES	NO
1	Is the applicant 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	Is the applicant a major Supplier earning at least \$100 million in annual revenues as a supplier to Aerospace Companies		
3	Is the applicant a Supplier, regardless of the total amount of it revenues, having at least 80% of its annual revenue from Aerospace Companies		

If the answer to at least one of the above 3 questions is yes, and the applicant is NOT a subsidiary of a company already a Full Member of IAEG, then	Annual Membership Fee
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If the average of the last 3 years annual revenue, based on an exchange rates on December 31st, 2015, is greater than \$10B ,	\$20,000
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If the average of the last 3 years annual revenue, based on an exchange rates on December 31st, 2015, is less than \$10B ,	\$15,000
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If the answer to questions 1,2 & 3 above is no, or the applicant is a subsidiary of a company already a Full Member of IAEG, then
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The company is eligible for a IAEG Liaison membership	\$1,500
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Questions & Answers