

PROGRAMME

&

PRESENTATIONS

ENVIRONMENT

2023 ICAO STOCKTAKING AND PRE-CAAF/3 POLICY AND FINANCE CONSULTATION

SAF-LAB Exhibition

11 to 13 July 2023 Montréal, ICAO Headquarters



2023 ICAO Stocktaking on Aviation in Sector CO₂ Emissions Reductions and Pre-CAAF/3 Policy and Finance Consultation

PROGRAMME

11 to 13 July 2023, ICAO Headquarters, Montréal

Day 1 - Tuesday, 11 July 2023

MORNING SESSION 1 – OPENING AND SETTING THE SCENE

SESSION 09:00 - 09:30

The ICAO Secretariat will present the 41st Session of the ICAO Assembly (A41) outcomes and recent developments supporting the achievement of the long-term aspirational goal (LTAG) of net-zero carbon emissions by 2050, with a focus on cleaner energies solutions.

- Juan Carlos Salazar, Secretary General, ICAO Opening
- Guillaume Faury, Chairman, French Aerospace Industries Association (GIFAS) Keynote
- Jane Hupe, Deputy Director, Environment, ICAO Scene Setting

| Morning Session | SESSION 2 – AIRCRAFT TECHNOLOGIES |
|--------------------|---|
| 09:30 – 10:45 | This session will cover innovative aircraft technologies being developed to support the achievement of the LTAG, with a focus on cleaner energy related developments. |
| | Speakerey |

Speakers:

- Michael Augello, Head of Group Demonstrators & Chief Executive Officer AIRBUS UpNext
- Kartik Raju, SAF Aircraft Integration Manager, Product Development, Boeing
- Charles L. Etter, Staff Scientist/Technical Fellow, Gulfstream
- Jieun Kirtley, Manager, Sustainability and fuels, GE Aerospace
- Sean Bradshaw, Senior Fellow, Sustainable Propulsion, Pratt & Whitney
- **Todd Solomon**, Head of Government Affairs in North America, Zeroavia
- Jon Gordon, Co-Founder, General Counsel, Head of Government Affairs, Universal Hydrogen

Moderation: Eileen Poh, Representative of Singapore on the ICAO Council.

Coffee Break (10:45 – 11:15)

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MORNING SESSION 11:15 – 12:30

SESSION

14:00 - 15:15

SESSION 3 – AIRPORTS, OPERATIONS, AND INFRASTRUCTURE

This Session will provide the latest innovations for airports, operations and infrastructure detailing how the future fleet will operate, with a focus on how new fuels and cleaner energies will be delivered through airport infrastructure.

Speakers:

- Michael Rossell, Senior Vice President, International Relations, Airports Council International
- Marion N. Chivot-Legris, Director, ESG Strategy, Edmonton International Airport
- U Hiroaki Sugimori, Director Decarbonization, Corporate Planning, All Nippon Airways
- **O** Nicolas Launay, ATC Marketing Director of Thales
- **Fethi Chebil**, Chief Executive Officer of Vports
- **Pankaj Khurana,** Programme Specialist, International Solar Alliance (ISA)

Moderation: Karen Ortega Marín, ICAO Environment Officer.



AFTERNOON SESSION 4 – SAF, LCAF AND CLEANER ENERGIES

Part I - SAF Feedstocks and Processing

This Session will highlight the current global efforts to produce sustainable feedstocks for SAF production, the initiatives to expand proven SAF production technologies to various ICAO Member States, and associated challenges and opportunities.

Speakers:

- Johan Malan, Senior Licensing Manager, Topsoe
- O Alex Menotti, Vice President, Government Affairs, Policy, and Sustainability, Lanzajet
- Michael Sargeant, Vice President, Renewable Aviation Americas, Neste
- Lindsay Fitzgerald, Vice President of Government Relations, Gevo
- **Donnell Rehagen**, Chief Executive Officer, Clean Fuels Alliance America
- Carolina Rojas, President, National Biofuels Federation of Colombia

Moderation: Shefali Juneja, Representative of India on the ICAO Council.

Coffee Break (15:15 – 15:45) 🎳 🎇 Spo

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AFTERNOON SESSION 15:45 – 17:15

SESSION 4 (CONT.) – SAF, LCAF AND CLEANER ENERGIES Part II - New technologies to expand cleaner energy in aviation

This Session will cover the new technologies under development to expand the production and use of Sustainable Aviation Fuels (SAF), Lower Carbon Aviation Fuels (LCAF), and cleaner energies for aviation.

Speakers:

- **Dan Kadlecek**, Principal Aviation Fuel Scientist, ExxonMobil
- O Anil Sinha, Chief Scientist, Head, BioFuels Division, India CSIR-IIP
- Matthew W. Dahan, Senior Vice President Business Development and Technology, Denbury
- Shannon Gray, Product Development Manager, 1PointFive
- Adam Baylin-Stern, Policy and Engagement Lead, Carbon Engineering
- Natalia Sharova, Climate Policy Manager, Air Company
- **O** Cathryn Estes, Vice President, Business Development, Arcadia eFuels
- Keith Lawless, Vice President, SAF+ Consortium

Moderation: Marcela Anselmi, Head of International Affairs and Environment, National Civil Aviation Agency, Brazil.



17:15 – 19:30 Opening Reception at ICAO HQ – Sponsored by OCOMICO

Day 2 - Wednesday, 12 July 2023

MORNING SESSION 09:00 - 10:30

SESSION 4 (CONT.) – SAF, LCAF AND CLEANER ENERGIES Part III - Certification and accounting of cleaner energies for aviation

This Session will cover initiatives to ensure that cleaner energies for aviation are safe, sustainable, and accounted properly towards the sustainability goals of States and institutions.

Speakers:

- **Bruno Silva**, Environment Officer (SAF & LTAG), ICAO
- **Dannis Poon,** Chief Operating Officer, EcoCeres
- Michael Schneider, Assistant Director Environmental Programs, IATA
- Adam Klauber, Vice President, Sustainability and Book & Claim, World Energy
- Madison Carroll, Executive Director, COSAFA
- Laura Hutchinson, Manager, Aviation Decarbonization, RMI/SABA

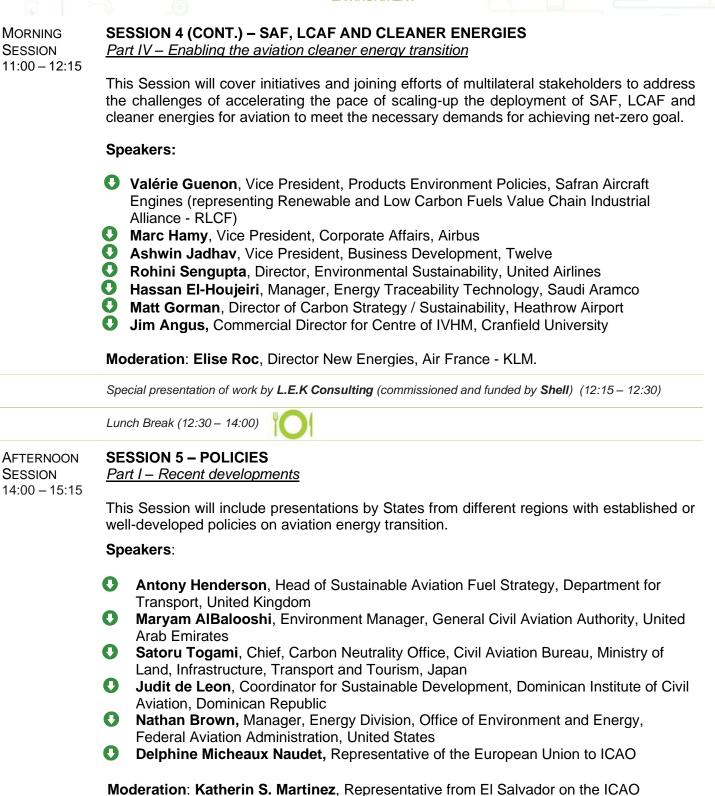
Moderation: Maryam AlBalooshi, UAE representative in the ICAO Committee on Aviation Environmental Protection (CAEP).

Special Award Session: <u>Recognition of Accomplishment for the certification of CORSIA</u> <u>Sustainable Aviation Fuel batches in the year 2022.</u>

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Coffee Break (10:30 - 11:00)





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Coffee Break (15:15 - 15:45)

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Council.



SESSION 5 (CONT.) – POLICIES AFTERNOON

SESSION 15:45 - 17:15

Part II – Roundtable – Challenges and Opportunities on Policies and Looking Forward to CAAF/3

Representatives from States, industry and other stakeholders will discuss the needs, challenges and opportunities on the development of a global policy framework to foster SAF development and deployment and what potential outcomes on policies could come from the third ICAO Conference on Aviation and Alternative Fuels (CAAF/3).

Speakers:

- Marcela Braga Anselmi, Head of International Affairs and Environment, National Civil Aviation Agency, Brazil
- Mathilde Tannous, EU-ETS and Biofuels Program Manager, Directorate General for **Civil Aviation**, France
- Mohamed Habib, Manager ICAO's affairs, General Authority of Civil Aviation, Saudi Arabia
- Daniel NG, Chief Sustainability Officer, Civil Aviation Authority of Singapore
- Glenn Johnston, Policy & Advocacy, Shell, representing Advanced BioFuels Association
- Frankline Omondi, Environment Expert, African Civil Aviation Commission
- Daniel Chereau, Assistant Director, Climate Policy, International Air Transport Association
- John Holler, Senior Program Officer, Climate Cooperation & Sustainable Fuels, World Wildlife Fund

Moderation: Nancy N. Young, Chief Sustainability Officer, Gevo

17:15 - 19:30 **Evening Reception** at ICAO HQ – Sponsored by





Day 3 - Thursday, 13 July 2023

SESSION 6 – FINANCING MORNING

SESSION 09:00 - 10:30 Part I - Overview of SAF, LCAF and cleaner energy financing and recent developments

This Session will include presentations by the industry, dialogues, coalitions, with special focus on financing of SAF, LCAF and aviation cleaner energies, including the importance of blended finance and roles of public / private institutions. Speakers:

- Haldane Dodd, Executive Director, ATAG
- O Alejandro Block, Manager, New Energies and Technologies, Environment and Sustainability, IATA
- 0 Jan Toschka, President of Global Aviation, Shell
- Joseph Shanahan, Managing Director, Citi Bank/Net Zero Banking Alliance
- **Riccardo Dutto**, Managing Director, Intesa San Paolo
- 0 John May, Managing Director, Hamilton Clark
- 0 Antony Henderson, Head of Sustainable Aviation Fuel Strategy at the UK Department for Transport

Moderation: Charity Musila, Alt. Representative of Kenya to ICAO.



AFTERNOON

SESSION 13:45 - 15:15

SESSION 6 (CONT.) – FINANCING

Part III – Roundtable - Needs and challenges for States and investors on financing

Representatives from States and financial institutions will discuss their needs and challenges to facilitate financing of SAF, LCAF and aviation cleaner energy projects.

Speakers:

- Charity Muthoni Musila, Alt. Representative of Kenya to ICAO
- Mahmoud Sani Ben Tukur, Representative of Nigeria on ICAO Council
- Martín Mackenna Rueda, Secretary General of the Civil Aeronautics Board of Chile
- James Falzon, Associate Director, Sustainable Infrastructure, European Bank for **Reconstruction and Development**
- Sebastien Collot, Senior Sector Engineer, European Investment Bank
- Reinaldo Fioravanti, Lead Specialist of the Transport division, Inter-American **Development Bank**

Moderation: Delphine Micheaux-Naudet, Representative of the EU to ICAO.

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AFTERNOON SESSION 15:45 – 17:15

SESSION 6 (CONT.) – FINANCING

Part IV - Roundtable - Looking ahead to CAAF/3 on financing

Representatives from States will discuss potential outcomes from CAAF/3 regarding action from ICAO and its Member States to facilitate financing of SAF, LCAF and aviation cleaner energy projects, including the role of ICAO.

Speakers:

- Ross Adams, Chairperson of the CEC Small Group for Preparation of CAAF/3, ICAO Council
- Flora Chin Lee Sa, Representative of Malaysia on the ICAO Council
- Laurent Pic, Representative of France on the ICAO Council
- Michel Arslanian Neto, Representative of Brazil on the ICAO Council
- Shefali Juneja, Representative of India on the ICAO Council
- Brent Christensen, Representative of the United States on the ICAO Council
- Andrew O'Henley, Representative of the United Kingdom on the ICAO Council

Moderation: Adefunke Adeyemi, Secretary General, African Civil Aviation Commission.

AFTERNOON SESSION 7 – CLOSING SESSION

17:15 – 17:30 • Salvatore Sciacchitano, President of the ICAO Council.



17:30 – 19:00 Closing Reception at ICAO HQ – Sponsored by **QrQMCC**





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2023 ICAO STOCKTAKING M AND PRE-CAAF/3 POLICY AND FINANCE CONSULTATION SAF-LAB Exhibition

11 to 13 July 2023 Montréal, ICAO Headquarters





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Contact: Shannon Gray Email: <u>Shannon.Gray@1pointfive.com</u>

1PointFive is a carbon removal and storage company that provides practical pathways that can help hard-to-abate industries, like aviation, to achieve their climate targets through the deployment of innovative solutions, including Carbon Engineering's Direct Air Capture (DAC) and AIR TO FUELS[™] technologies alongside geologic sequestration hubs. More at 1PointFive.com.

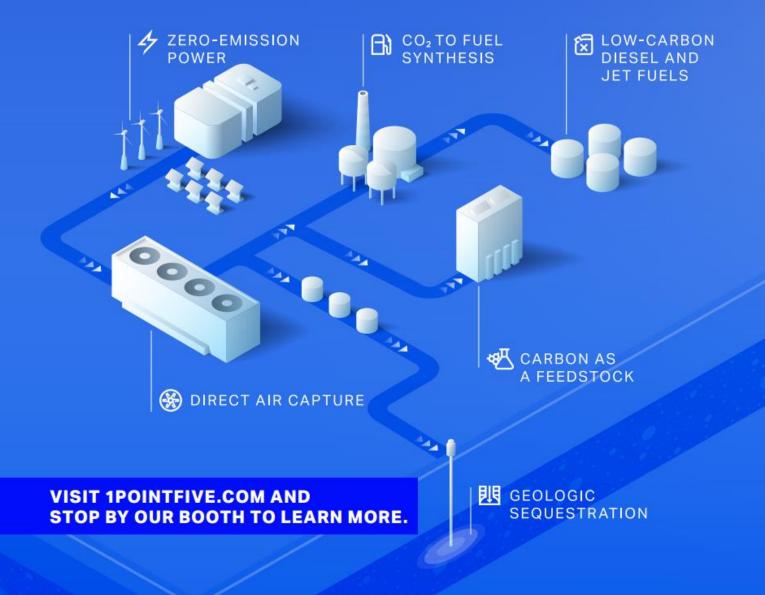




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Headquartered in Greater Montréal, Québec, Bombardier operates aerostructure, assembly and completion facilities in Canada, the United States and Mexico. The company's robust customer support network services the Learjet, Challenger and Global families of aircraft, and includes facilities in strategic locations in the United States and Canada, as well as in the United Kingdom, Germany, France, Switzerland, Italy, Austria, the UAE, Singapore, China and Australia.



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2022 Environmental, Social and Governance (ESG) Report



Aircraft Environmental Product Declarations (EPD)



Bombardier's Environmental Brochure



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www.denbury.com

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Denbury is an independent energy company focused on Carbon Capture, Utilization, and Storage ("CCUS") and Enhanced Oil Recovery ("EOR") in the Gulf Coast and Rocky Mountain regions. For over two decades, the Company has maintained a unique strategic focus on utilizing CO₂ in its EOR operations and since 2012 has also been active in CCUS through the injection of captured industrial-sourced CO₂. The Company currently injects over four million tons of captured industrial-sourced CO₂ annually, with an objective to fully offset its Scope 1, 2, and 3 CO₂ emissions by 2030, primarily through increased use of captured industrial-sourced CO₂.



Carbon Solutions for a Sustainable Future

Denbury is a premier carbon solutions company focused on responsibly meeting the world's energy needs while reducing global CO₂ emissions. As a leader in Carbon Capture, Utilization, and Storage ("CCUS"), we utilize industrial-sourced CO₂ to produce environmentally friendly, carbon-negative "Blue Oil" through Enhanced Oil Recovery ("EOR"). When Blue Oil is refined to produce aviation fuel, the result is a Lower Carbon Aviation Fuel ("LCAF") with an ultra-low to negative carbon intensity, ideally suited as a blending stock for Sustainable Aviation Fuels ("SAF") or as a stand-alone jet fuel. We also will provide industrial-sourced CO₂ to customers through our extensive CO₂ pipeline infrastructure to be utilized in the process of low-carbon fuels such as eFuels for SAF. Learn more at **DENBURY.COM**.







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www.airbus.com

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Airbus pioneers sustainable aerospace for a safe and united world. The Company constantly innovates to provide efficient and technologically-advanced solutions in aerospace, defence, and connected services. In commercial aircraft, Airbus offers modern and fuel-efficient airliners and associated services. Airbus is also a European leader in defence and security and one of the world's leading space businesses. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions and services worldwide.

At Airbus, we are committed to leading the decarbonisation of the aerospace sector. This includes reducing the CO₂ emissions of our aircraft, satellites and launch vehicles, as well as our industrial environmental footprint at sites worldwide and throughout our supply chain. To this end, we are contributing to meet key industry-wide environmental performance targets. We are also focused on delivering on our ambition to bring the world's first hydrogen-powered commercial aircraft to market by 2035.

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AIRBUS

PIONEERING SUSTAINABLE AEROSPACE FOR SAFE AND UNITED WORLD

We're on a mission to pioneer sustainable aerospace for a safe and united world. That's why we are committed to bringing the first hydrogen-powered commercial aircraft to market by 2035, paving the way to decarbonisation for future generations to come.

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SHELL AVIATION

www.shell.com/aviation

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With one of the most extensive refuelling networks in the world Shell Aviation supplies fuel, lubricants, and sustainable solutions in 45 countries. Customers range from the world's largest airlines to private pilots.

Shell has set a clear target to become a net-zero emissions energy business by 2050, with Shell Aviation aligned with this ambition. Sustainable aviation fuel (SAF) is a key lever to achieve this and we aim to have at least 10% of our global aviation fuel sales from SAF by 2030. We also aim to be a SAF producer from 2025, and we're investing in promising technologies to accelerate other production pathways such as Alcohol to Jet (AtJ) technology.

Our production ambitions, together with our supply deals, positions us strongly to support the decarbonisation of aviation.

Taking flight today, for a more sustainable tomorrow.

Learn more about how Shell Aviation is powering progress.



Shell Aviation

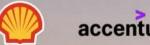
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