



2024 ICAO LTAG STOCKTAKING

7 — 10 OCTOBER 2024

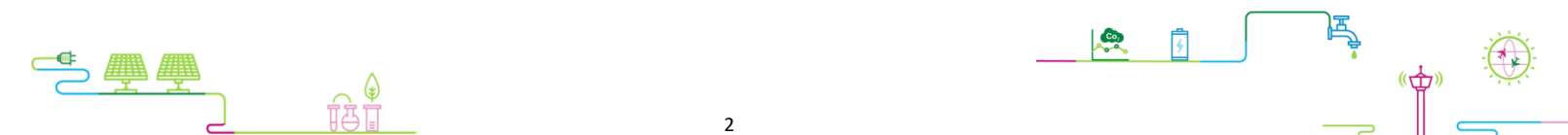
ICAO HEADQUARTERS, MONTREAL, CANADA

Programme





Day 1 – Monday, 7 October 2024	
Latest developments on Aircraft Technology and Hydrogen	
	Assembly Hall (AH)
09:00 – 09:30	Welcome and Introduction <ul style="list-style-type: none"> • Salvatore Sciacchitano, President of the ICAO Council, International Civil Aviation Organization – ICAO • Mohamed Rahma, Director, Air Transport Bureau, International Civil Aviation Organization – ICAO • <u>Keynote speech by Paddy Lowe, Founder and Chief Executive Officer, Zero Petroleum</u>
09:30 – 09:45	<u>Setting the Scene</u>
09:45 – 10:45	Session 1: High level Panel: Innovation and partnerships as key drivers of aviation cleaner energy transition and the achievement of the LTAG <ul style="list-style-type: none"> • Session 1 will aim at sharing high-level views on the innovations that will enable achieving the LTAG. • High-level representatives will discuss the importance of partnerships as the next leadership towards net zero by 2050. <p>Moderator: Jane Hupe, Deputy Director Environment, International Civil Aviation Organization - ICAO</p> <p>Panelists (roundtable format):</p> <ul style="list-style-type: none"> • Julie Kitcher, Chief Sustainability Officer, Airbus • Isabel Galiana, COO & Co-Founder, Future Energy Global • Juliet Agyapomaa Okae, Deputy Director General, Ghana Civil Aviation Authority • Evgenia Starkova, Vice President Marketing & Sustainability, SkyTeam
10:45 – 11:15	Coffee Break Sponsored by VariFlight[®]
11:15 – 12:20	Session 2: Aircraft technologies – Part 1: Latest innovations to achieve the LTAG <ul style="list-style-type: none"> • Session 2 Part 1 will aim at taking stock of the latest aircraft and engine innovations to achieve the LTAG. <p>Moderator: Valdis Adalsteinsdottir, Representative of Iceland on the Council of ICAO</p> <p>Speakers:</p> <ul style="list-style-type: none"> • <u>Vinicius di Nucci Pereira</u>, Head of Zero Emissions, Embraer • <u>Graham Webb</u>, Vice President Sustainability, Pratt&Whitney • <u>Jeff Shakhnaitis</u>, Customer Sustainability Leader, GE Aerospace • Francesca De Domenico, Assistant Professor in Sustainable Aircraft Propulsion, TU Delft
12:20 – 12:35	SKYTALKS Presented by
12:35 – 14:00	Lunch Break Sponsored by AIRBUS





<p>14:00 – 14:45</p>	<p>Session 2: Aircraft technologies – Part 2: Start-Up Session</p> <ul style="list-style-type: none"> Session 2 Part 2 will be dedicated to showcasing presentations from innovative startups that are revolutionizing the aviation industry, exploring firsthand the solutions that are contributing to a more sustainable future in aviation. <p>Moderator: Anouck Barreaux, Director Environment, Security, Health & Facilitation Policy, International Coordinating Council of Aerospace Industries Associations - ICCAIA</p> <p>Speakers:</p> <ul style="list-style-type: none"> Thibault Baldivia, Co-Founder and Chief Commercial Officer, Ascendance Flight Technologies Arthur Leopold Leger, Chief Executive Officer, Elixir Aircraft Jacques-Alexis Verrecchia, Head of product, Beyond Aero
<p>14:45 – 15:30</p>	<p>Session 2: Aircraft Technology – Part 3: Policies & Partnerships</p> <ul style="list-style-type: none"> Session 2 Part 3 will focus on policies and regulatory framework to support new aircraft technologies and fleet renewal, as well as the role of multi-stakeholders partnerships to support deployment of new aircraft technologies. <p>Moderator: Arthur Orton, Technology & Operations Division Manager, Office of Environment & Energy, Federal Aviation Administration</p> <p>Speakers:</p> <ul style="list-style-type: none"> Sebastien Dubois, Head of Programme Development and Communications, Clean Aviation Joint Undertaking Dunia Abboud, Advanced Air Mobility and Sustainability Expert, Bureau Veritas Group Brandon Graver, Director Environmental Affairs, Airlines for America
<p>15:30 – 16:00</p>	<p>Coffee Break Sponsored by VariFlight[®]</p>
<p>16:00 – 17:20</p>	<p>Special Session on Hydrogen use in aviation</p> <ul style="list-style-type: none"> This Special Session will take stock of the latest developments on the production and use of hydrogen for aviation. <p>Moderator: Brahim Kane, Representative of Mauritania on the Council of ICAO</p> <p>Speakers:</p> <ul style="list-style-type: none"> Thomas Haase, Division Development Aeronautics, German Aerospace Center – DLR Paul Palies, Associate Professor, University of Tennessee, Knoxville (UTK) and The University of Tennessee Space Institute Marc Hamy, Vice President, Corporate Affairs, Airbus Jacques-Alexis Verrecchia, Head of product, Beyond Aero Fernanda Cabañas, Project Manager for the Vuelo Limpio Program, Chile
<p>17:20 – 17:25</p>	<p>Closing of Day 1</p>
<p>End of Day 1</p>	



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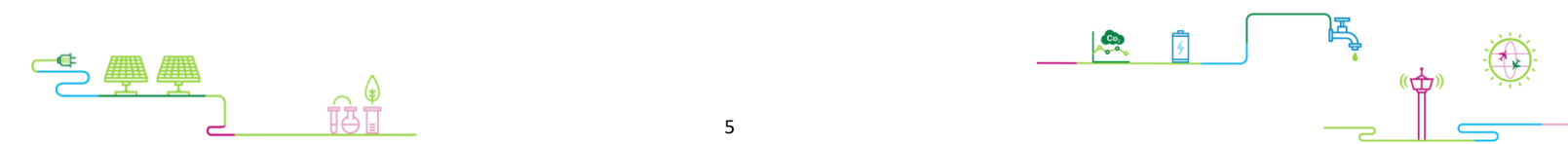
Day 2 – Tuesday, 8 October 2024

Latest developments on Operations and Cleaner Energies

	Assembly Hall (AH)
09:00 – 09:15	Introduction of Day 2
09:15 – 10:15	<p>Session 3: Operational improvements to achieve the LTAG</p> <ul style="list-style-type: none"> This Session will provide the latest innovations on operational improvements that can help reduce CO₂ emissions, air traffic management improvements, as well as ground operations measures. <p>Moderator: Christian Schleifer, Representative of Austria on the Council of ICAO</p> <p>Speakers:</p> <ul style="list-style-type: none"> Yukako Oishi, Performance Engineer, and Ken Konishi, Commercial Pilot, All Nippon Airways Louis Brunet, Managing Director, Collins Aerospace Jerome Gagnon, Assistant Vice President, Strategy Realization, NAV Canada Xavier Louis, Director Research Technology, Thales
10:15 – 10:30	 Presented by 
10:30 – 11:00	<p>Coffee Break Sponsored by  Shell Aviation</p>
11:00 – 12:30	<p>Session 4: Airports and Infrastructure</p> <ul style="list-style-type: none"> Session 4 will provide the latest innovations for airports and infrastructure, with a focus on how new fuels and cleaner energies will be distributed. <p>Moderator: Darryl Dowd, Vice President, Safety, Security and Operations, Airports Council International (ACI) World</p> <p>Speakers:</p> <ul style="list-style-type: none"> Kathleen Henderson, Senior Director, Operations, Environment and Regulatory Affairs, Canadian Airports Council Charlotte Verreydt, Senior Project Manager, Brussels International Airport Bryan Bernhard, Chief Growth and Infrastructure Officer, Archer Aviation Sharad Kumar, Member (Operations & Planning), Airports Authority of India
12:30 – 14:00	<p>Lunch Break Sponsored by </p>



14:00 – 15:20	<p>Session 5: SAF, LCAF and Cleaner Energies – Part 1: Overview of ICAO Global Framework adopted by CAAF/3</p> <ul style="list-style-type: none"> • The Session 5 will start with the ICAO presentation of CAAF/3 outcomes and the Global Framework, including recent developments on four Building Blocks: 1) policy and planning; 2) regulatory framework, 3) implementation support, and 4) financing, as well as their relationships with the LTAG implementation. • This will be followed by a discussion with key stakeholders regarding the developments made, the next steps and the opportunities and challenges to further implement the Global Framework in view of achieving the LTAG. <p>Moderator: Annick Goulet, Representative of Canada on the ICAO Council</p> <p>Panelists (roundtable format):</p> <ul style="list-style-type: none"> • Ross Adams, Representative of Australia on the ICAO Council • Lorena Perez-Bajo, Climate Director and Derek Wheeler, Chair of GHG Emissions from Aviation Task Force, International Petroleum Industry Environmental Conservation Association (IPIECA) • Haldane Dodd, Executive Director, Air Transport Action Group (ATAG) • Tim Johnson, Director, International Coalition for Sustainable Aviation (ICSA)
15:20 – 15:50	<p>Coffee Break</p>
15:50 – 17:20	<p>Session 5: SAF, LCAF and Cleaner Energies – Part 2: Latest developments on feedstocks, pathways and technologies</p> <ul style="list-style-type: none"> • Building upon the ICAO Global Framework adopted at CAAF/3, this Session 5 Part 2 will highlight the current global efforts to produce sustainable feedstocks, pathways and technologies for SAF, LCAF and other cleaner energies for aviation, the initiatives to expand the proven production technologies to Member States, and associated opportunities. <p>Moderator: Urs Ziegler, Head Environmental Affairs Section, Federal Department of Environment, Transport, Energy and Communications DETEC, Federal Office of Civil Aviation Switzerland - FOCA</p> <p>Speakers:</p> <ul style="list-style-type: none"> • <u>Martin Palis</u>, Senior Principal Scientist & Technology Manager, Topsoe • <u>Martin Stephan</u>, Chief Business Officer, Global Bioenergies • <u>Nishal Popovic</u>, Manager of Trading, Valero • <u>Mauro Risi</u>, Manager of Sustainable B2B Partnership & Service Solution Opportunity Identification, Eni SpA • <u>Alyson Fick</u>, Senior Manager, Standards Development, ASTM • <u>Syed Hussain</u>, Strategy & Market Specialist, Saudi Aramco
17:20 – 17:25	<p>Closing of Day 2</p>
<p>End of Day 2</p>	





Day 3 – Wednesday, 9 October 2024

Cleaner Energies and State Action Plans

	Assembly Hall (AH)
09:00 – 09:10	Introduction of Day 3
09:10 – 10:15	<p>Session 5: SAF, LCAF and Cleaner Energies – Part 3: Policies and Partnerships</p> <ul style="list-style-type: none"> Building upon the ICAO Global Framework adopted at CAAF/3, this Session 5 Part 3 will focus on the latest progress in developing policies all around the world that fit each State's own circumstances, as well as partnerships to support the deployment of aviation cleaner energies. <p>Moderator: Olivier Husse, Director at Airbus Corporate Affairs, Airbus</p> <p>Speakers:</p> <ul style="list-style-type: none"> Katja Lohnert, Chief Project Engineer, Rolls-Royce Francis Mwangi, Senior Planning Officer, Kenya Civil Aviation Authority Delphine Micheaux Naudet, Representative of the European Union to ICAO Zia Haq, Senior Lead Analyst, Data, Modeling, and Analysis, U.S. Department of Energy, Office of Energy Efficiency & Renewable Energy (BETO) Angelo Costa Gurgel, Research Scientist, MIT Center for Sustainability Science and Strategy
10:15 – 10:30	<div>  Presented by  Shell Aviation </div>
10:30 – 11:00	Coffee Break Sponsored by
11:00 – 11:45	<p>Session 5: SAF, LCAF and Cleaner Energies – Part 4: Sustainable Certification</p> <ul style="list-style-type: none"> Building upon the ICAO Global Framework adopted at CAAF/3, this Session 5 Part 4 will focus on the latest developments to certify aviation cleaner energies, ensuring they are safe, sustainable, and accurately contribute to the LTAG. <p>Moderator: Jon Albert Obnamia, Aviation Environmental and Sustainability Specialist, Transport Canada</p> <p>Speakers:</p> <ul style="list-style-type: none"> Max Eichelbaum, Digital Solutions Lead, Roundtable on Sustainable Biomaterials (RSB) Carlos A. Rainero, Business Developer, Control Union Canada Pedro Ruano, Joint Owner and Board Member, Gremca Agricultura y Energía Sostenible S.A.
11:45 – 12:45	<p>Session 6: Monitoring progress towards the LTAG, through accounting methodologies</p> <ul style="list-style-type: none"> The Session 6 will provide an update on the work of ICAO, through the Council's Committee on Aviation Environmental Protection (CAEP) to develop the LTAG monitoring and reporting (LMR) methodology. It will also focus on the latest development to account aviation cleaner energies. <p>Moderator: Michael Lunter, International Head of Sustainable Aviation, Ministry of Infrastructure and Water Management, Netherlands and Co-rapporteur of the LMR-TG (LTAG Monitoring and Reporting Task Group) of ICAO's Committee on Aviation Environmental Protection (CAEP)</p> <p>Speakers:</p>





	<ul style="list-style-type: none"> • Louise Burke, Vice President, Strategic Business Development NA Renewables and Global Head of Aviation, Argus Media • Torsten Schwab, Director, International Power-to-X (PtX) Hub, GIZ • Caroline Jung, Solutions Development Specialist, Carbon Engineering ULC • Michael Schneider, Assistant Director Sustainability Programs, Sustainability & Economics, International Air Transport Association (IATA)
12:45 – 14:15	Lunch Break
14:15 – 15:35	<p>Session 7: Monitoring progress towards the LTAG, through State Action Plans</p> <ul style="list-style-type: none"> • This Session will continue by taking stock of State Action Plans for implementation of aviation CO₂ mitigation measures including aviation cleaner energies, by sharing examples and best practices, contributing to the achievement of the LTAG. <p>Moderator: Neil Dickson, Chief Environmental Standards, International Civil Aviation Organization - ICAO</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Zanda Bonamy, Director – Environmental Management, Civil Aviation Authority Bahamas • Adnan Alotaibi, Director General for Environmental Sustainability of General Civil Aviation Authority (GACA), Saudi Arabia • Elisabeth Klein, Senior Policy Officer, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (Directorate Aviation), Austria • Chan Zhi Xiong, Senior Assistant Director (Sustainability Office), Civil Aviation Authority of Singapore (CAAS) • Kurtis Lespoir, Air Transport Manager, Seychelles Civil Aviation Authority • Francis Mwangi, Senior Planning Officer, Kenya Civil Aviation Authority • Sayuta Senobua, Airworthiness Engineer, Directorate General of Civil Aviation, Indonesia
15:35 – 16:05	Coffee Break
16:05 – 17:25	<p>Session 8: Implementation support – Part 1: ICAO ACT-SAF Programme</p> <ul style="list-style-type: none"> • Session 8 will start with an overview of ICAO's work to provide implementation support on SAF, LCAF and other Aviation Cleaner Energies, through the ACT-SAF programme. That will include insights on trainings, guidance, sharing of best practices, and the development of feasibility studies and business cases, through partnerships and cooperation with ACT-SAF partners that will be also sharing their perspectives and developments. <p>Moderator: Bruno Silva, SAF and LTAG Officer, International Civil Aviation Organization - ICAO</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Martín Rueda, Secretary General, Civil Aeronautics Board of Chile • Delphine Micheaux Naudet, Representative of the European Union to ICAO • Claude Hurley, Director, Environment & Flight Operations, International Business Aviation Council (IBAC) • David Moroz, Head of International Negotiations, Aviation Decarbonisation Division, Aviation Directorate, Department for Transport, United Kingdom
17:30 – 19:30	2024 LTAG Stocktaking Reception
End of day 3	





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Day 4 – Thursday, 10 October 2024

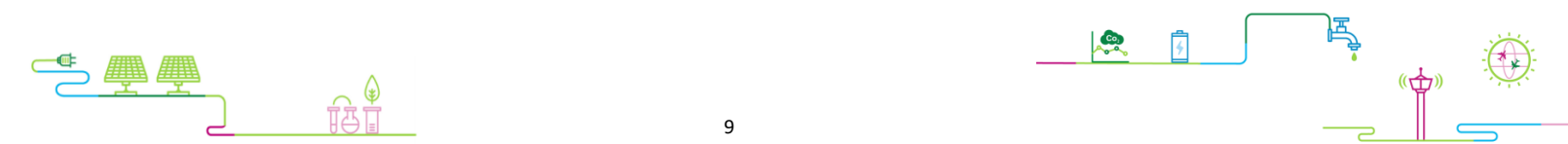
Implementation Support and Financing

	Assembly Hall (AH)
09:00 – 09:15	Introduction of Day 4
09:15 – 10:30	<p>Session 8: Implementation support - Part 2: Challenges and opportunities in achieving the LTAG</p> <ul style="list-style-type: none"> This Session 8 Part 2 will highlight the latest developments in implementation support activities all around the world on all elements of the basket of measures, and allow stakeholders to share their needs, opportunities and new ways towards achieving the LTAG for a just transition to cleaner energies. <p>Moderator: Sophia Olmos, Associate Environment Officer, International Civil Aviation Organization - ICAO</p> <p>Speakers:</p> <ul style="list-style-type: none"> Helen Giles, Managing Director Environmental Sustainability, Southwest Airlines Matthew Jee, Programme Manager for the UK SAF Clearing House (UK SAF CH), United Kingdom Michael Russel, Senior Vice President, International Relations, Airports Council International (ACI) World Camilo Pabon-Almanza, Advisor – Sustainable Transport and Global Outreach, International Transport Forum (ITF) Neil Titchener, Cascade Program Leader, Boeing
10:30 – 11:00	<p>Coffee Break Sponsored by </p>
11:00 – 12:30	<p>Session 9: Financing – Part 1: ICAO FINVEST Hub</p> <ul style="list-style-type: none"> The Session 9 will start with an overview of the ICAO work to facilitate access to financing for aviation decarbonization projects, including advocacy and outreach, and the operationalization of the ICAO FINVEST Hub. <p>Moderator: Jane Hupe, Deputy Director Environment, International Civil Aviation Organization - ICAO</p> <p>Panelists (roundtable format):</p> <p>Keynote presentation by Juan Carlos Salazar, Secretary General, International Civil Aviation Organization (ICAO)</p> <ul style="list-style-type: none"> Michael Morgan, Executive Managing Director, Burnham Sterling (Manager of the Sustainable Aviation Fuel Financing Fund (SAFFA)) Haldane Dodd, Executive Director, Air Transport Action Group (ATAG) Christoph Michel, Senior Financial Advisor, International Power-to-X (PtX) Hub/GIZ
12:30 – 14:00	Lunch Break





14:00 – 15:15	<p>Session 9: Financing – Part 2: Financing the aviation cleaner energy transition</p> <ul style="list-style-type: none"> Session 9 Part 2 will continue on the financing topic by allowing stakeholders to discuss their needs, opportunities and new ways to facilitate financing for SAF, LCAF and aviation cleaner energy projects, towards achieving the LTAG. <p>Moderator: Eileen Poh, Representative of Singapore on the ICAO Council</p> <p>Speakers:</p> <ul style="list-style-type: none"> Ashwin Jadhav, Vice President, Business Development, Twelve Sergio Nuñez, Head of Marketing and Decarbonization, Shell Aviation Jean Paquin, Chief Executive Officer, SAF+ International Group David Swan, Chief Operations & Sustainability Officer, SMBC Aviation Capital
15:15 – 15:30	<div>  <div>Presented by</div>  </div>
15:30 – 16:00	<div> Coffee Break <div>Sponsored by</div>  </div>
16:00 – 16:45	<p>Closing Session: Aviation Cleaner Energy Just Transition</p> <ul style="list-style-type: none"> In this closing session, panelists will share perspectives on the key challenges and opportunities in ensuring a just transition to cleaner energy in aviation, with a focus on achieving sustainability across all dimensions. <p>Moderator: Jane Hupe, Deputy Director Environment, International Civil Aviation Organization - ICAO</p> <p>Panelists (roundtable format):</p> <ul style="list-style-type: none"> Kristín Helga Markúsdóttir, Deputy Director General, Icelandic Transport Authority Anna Stukas, Vice President Strategic Partnerships, 1PointFive Shruti K. Mishra, Senior Member of Technical Staff, Economics of Energy and Environment, Sandia National Laboratories
17:00 – 17:20	<p>2024 LTAG Stocktaking Closing</p> <p>Closing remarks by Juan Carlos Salazar, Secretary General, International Civil Aviation Organization – ICAO</p>
End of Day 4	





“ICAO SAF Connect” - ACT-SAF Side Event – Friday, 11 October 2024

Assembly Hall (AH)

09:00 – 09:05

Introduction of the Side Event

09:05 – 09:50

Roundtable 1 – Taking Stock of the ACT-SAF Training Series – Launch of Season 3

- This ACT-SAF Roundtable 1 will aim at discussing the trainings related to SAF, LCAF and other aviation cleaner energies, provided through the ACT-SAF Series.
- *Discussion with ACT-SAF Partners on the ACT-SAF Series:* The Roundtable will receive feedback and views of the ACT-SAF Partners, discuss the way forward and launch the Season 3 of the ACT-SAF Series.

Moderator: Taffy Cheung, Environment Officer, International Civil Aviation Organization - ICAO

Panelists (roundtable format):

- [Osamu Nakamura](#), Chief, Carbon Neutrality Promotion Office Civil Aviation Bureau, Ministry of Land, Infrastructure, Transport and Tourism Japan (JCAB)
- [David Moroz](#), Head of International Negotiations, Aviation Decarbonisation Division, Aviation Directorate, Department for Transport, United Kingdom
- [Katja Lohnert](#), Chief Project Engineer, Rolls-Royce

09:50 – 10:30

Networking Coffee Break

10:30 – 11:15

Roundtable 2 – Feasibility Studies to support aviation cleaner energy transition

- This ACT-SAF Roundtable 2 will share experience and best practices on previous and ongoing feasibility studies on SAF production, as well as updates on SAF Feasibility Studies.
- *Discussion with ACT-SAF Partners on SAF Feasibility Studies.*

Moderator: Neil Dickson, Chief Environmental Standards, International Civil Aviation Organization - ICAO

Panelists (roundtable format):

- [Delphine Micheaux Naudet](#), Representative of the European Union to ICAO
- [Sebastian Flores](#), Head of Planning and Studies, Civil Aeronautics Board of Chile
- [Mildred Troegeler](#), Executive Liaison to ICAO, Boeing
- [Keith Lawless](#), Vice President, Renewable Aviation, SAF+ International Group (Feasibility Study developer)

11:15 – 12:00

Roundtable 3 – Post-Feasibility Studies – Towards SAF production projects

- This ACT-SAF Roundtable 3 will share experience and best practices on the next steps following the feasibility studies, toward SAF production projects, including the SAF Business Implementation Reports and the bankability of projects.
- *Discussion with ACT-SAF Partners on Business Implementation Reports and SAF production projects.*

Moderator: Bruno Silva, SAF and LTAG Officer, International Civil Aviation Organization - ICAO

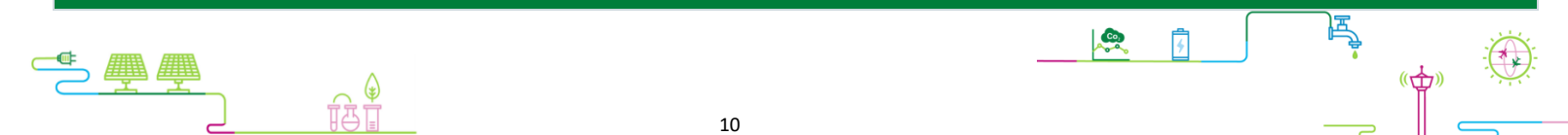
Panelists (roundtable format):

- [Catherine Guillemart](#), Vice President, Public Affairs Canada and Airbus Representative to ICAO
- [Christoph Michel](#), Senior Financial Advisor, International Power-to-X (PtX) Hub/GIZ
- [Francis Mwangi](#), Senior Planning Officer, Kenya Civil Aviation Authority
- [Michael Lunter](#), International Head Sustainable Aviation, Ministry of Infrastructure and Water Management, Directorate-General for Civil Aviation and Maritime Affairs, Civil Aviation Division, Netherlands

12:00 – 12:35

Closing of the ACT-SAF Side Event

End of ACT-SAF Side Event



A full-page background image featuring a person standing on a dark, rocky peak in the lower-left foreground. The sky is a deep blue, filled with numerous stars and the faint, glowing band of the Milky Way galaxy stretching diagonally across the frame. In the lower-right, a bright sun or moon is partially obscured by dark, horizontal clouds, creating a silhouette effect. The overall mood is one of vastness and aspiration.

Gathering
pace towards
sustainable
aerospace

AIRBUS



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Airbus

Company description

Airbus is a global pioneer in the aerospace industry, operating in the commercial aircraft, helicopters, defence and space sectors. Airbus is a leader in designing, manufacturing and delivering aerospace products, services and solutions to customers on a worldwide scale.

With around 150,000 employees and as the largest aeronautics and space company in Europe and a worldwide leader, Airbus is at the forefront of the aviation industry. We build the most innovative commercial aircraft and consistently capture about half of all commercial airliner orders. Thanks to our deep understanding of changing market needs, customer focus and technological innovation, we offer products that connect people and places via air and space.

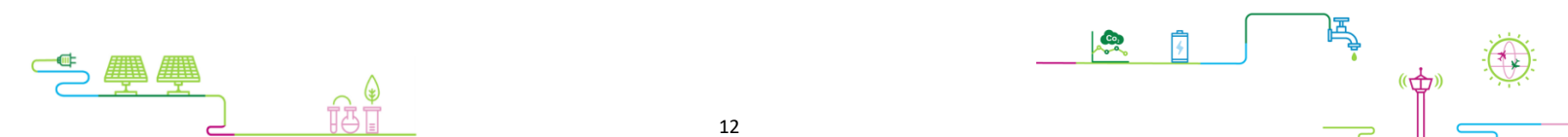
Contact information

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www.airbus.com



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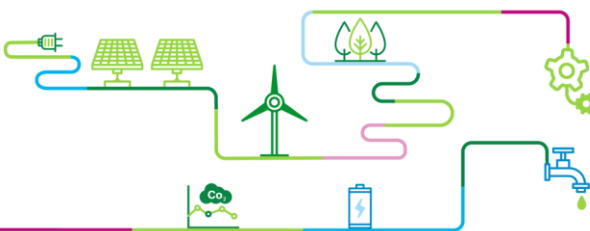
CLIMATE TECHNOLOGY THAT IS DESIGNED TO
REMOVE CO₂ FROM THE ATMOSPHERE AT SCALE

1PointFive seeks to provide innovative technologies like
Direct Air Capture to help companies, countries, and
communities achieve global emissions reduction targets.

VISIT [1POINTFIVE.COM](https://1pointfive.com) AND STOP
BY OUR BOOTH TO LEARN MORE.

1POINTFIVE

STRATOS construction as of June 2024 in Ector County, TX.



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ICAO HEADQUARTERS, MONTREAL, CANADA



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1 Point Five – Booth #13

Company description

1PointFive- Making a difference with carbon removal and sequestration.

1PointFive is a carbon capture and storage company focused on reducing the amount of carbon dioxide in the atmosphere. We're working to help companies in hard-to-abate sectors, such as aviation, meet their emissions reduction targets by developing Direct Air Capture (DAC) and geologic sequestration solutions.

1PointFive is currently building what is expected to be the largest DAC facility in the world in Ector County, Texas. It is designed to capture up to 500,000 tonnes of CO₂ per year once fully operational, and is expected to commence commercial operations in mid-2025. 1PointFive was also selected to receive a grant from the U.S. Department of Energy's Office of Clean Energy Demonstrations to develop a second DAC facility along with a sequestration hub in South Texas.

Leading companies, including All Nippon Airways and AIRBUS, have already executed pioneering purchase agreements with 1PointFive for DAC-enabled carbon dioxide removal credits.

Learn more at 1pointfive.com.

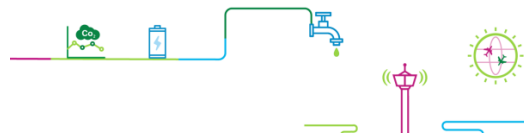
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Website

1PointFive.com

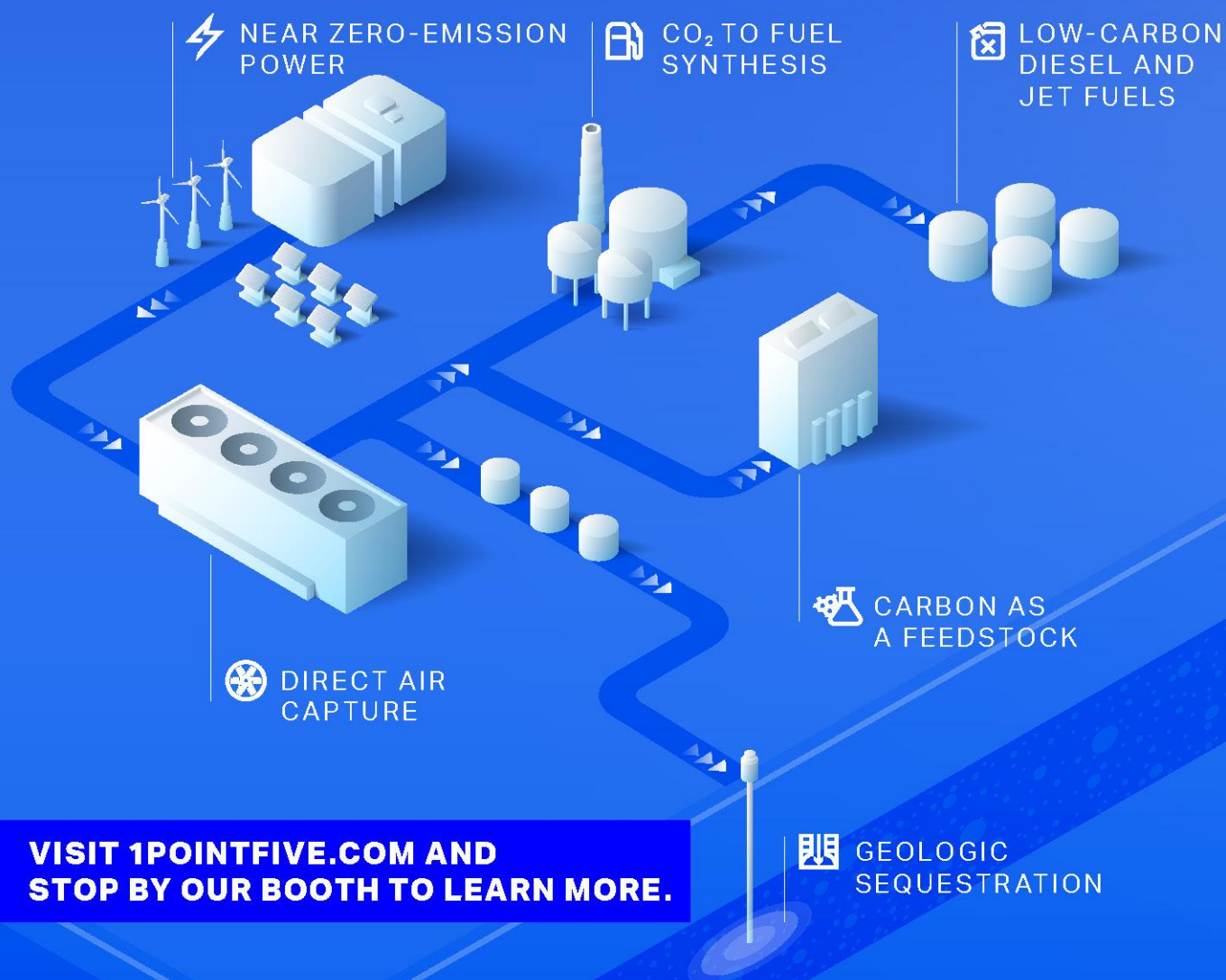




TECHNOLOGIES TO HELP GET US FROM NOW TO NET ZERO

REMOVING AND REUSING ATMOSPHERIC CO₂

Carbon dioxide removed from the atmosphere can be used for a wide range of applications: from generating carbon dioxide removal (CDR) credits to address residual emissions, to using CO₂ as a feedstock to create new products. We believe technologies like Direct Air Capture provide practical pathways to help companies reach net zero.



**VISIT [1POINTFIVE.COM](https://1pointfive.com) AND
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Artist rendering for illustrative purposes only.



Shell Aviation



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Shell Aviation

Company description

With one of the most extensive refueling networks in the world, Shell Aviation supplies fuel, lubricants, and sustainable solutions globally.

Shell's Powering Progress strategy supports our purpose of providing more and cleaner energy solutions, as we work to become a net-zero emissions energy business by 2050.

In line with that target, we are increasingly supplying sustainable aviation fuel to customers as well as working to improve the sustainability of our lubricants portfolio.

We envisage an aviation sector that will transition to sustainable solutions, and we intend to maintain our key role in the sector.

For more Information visit: www.shell.com/aviation

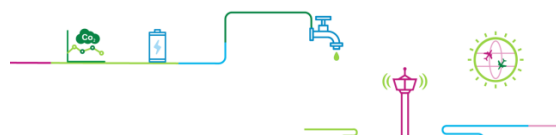
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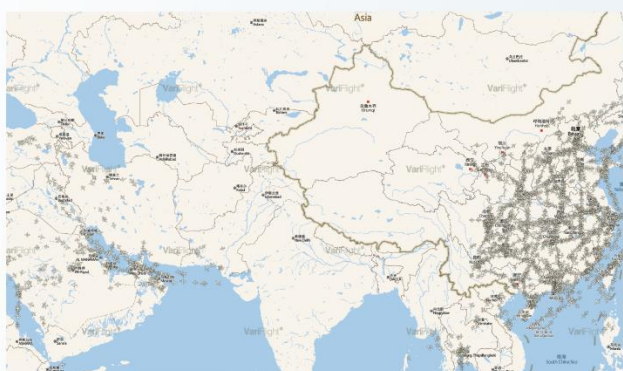
Website

www.shell.com/aviation



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VariFlight ADS-B

Our ADS-B system monitors over 10 billion flights daily, allowing us to build a customized flight monitoring system based on specific criteria.

VariFlight Big Data

An awesome online platform for comprehensive aviation data insights, backed by our Data Center that surpasses 100 billion data invocations daily.



Carbon Emission

Armed with flight carbon emission data, VariFlight tirelessly advocates for carbon reduction and raises public awareness. Leveraging our expertise in ESG market intelligence and consulting, we strive to propel the aviation industry towards a greener and more sustainable future.



VariFlight[®]

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VariFlight

Company description

As a leading provider of air travel services and digital technology solutions, VariFlight possesses nearly 20 years of civil aviation expertise. By leveraging the power of smart IT solutions, databanks and digital services, we are helping airports, airlines and ANSPs to improve operational efficiency whilst providing intelligent travel data applications for enterprises, passengers and the broader community.

Based on decades of valuable experience and best practices empowered by VariFlight, more than 100 airports around the world have realized multi-faceted digitization capabilities based on our advanced Total Airport Management (TAM) solutions and in-depth studies integrating with airspace development to enable a more harmonious ground-air synergy.

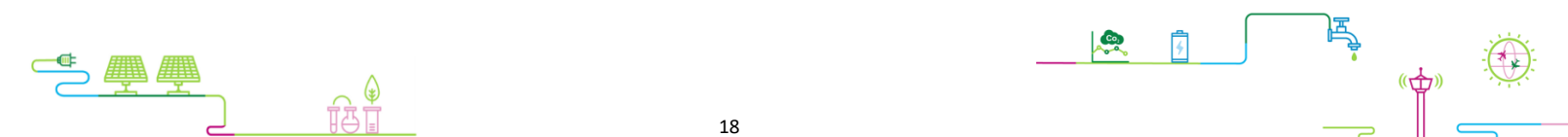
Furthermore, VariFlight also operates a number of platforms for civil aviation data analysis (CADAS), air traveller service evaluation (CAPSE), trade information portal (CARNOC), carbon emission intelligence in addition to several joint labs and research agencies in collaboration with industry-leading partners.

Contact information

Simon Li
simon.li@variflight.com

Website

<https://www.variflight.com/en/>





ExxonMobil

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ExxonMobil

Company description

ExxonMobil, one of the largest publicly traded international energy and petrochemical companies, creates solutions that improve quality of life and meet society's evolving needs. The corporation's primary businesses – Upstream, Product Solutions and Low Carbon Solutions -provide products that enable modern life, including energy, chemicals, lubricants, and lower-emissions technologies. ExxonMobil holds an industry - leading portfolio of resources, and is one of the largest integrated fuels, lubricants and chemical companies in the world.

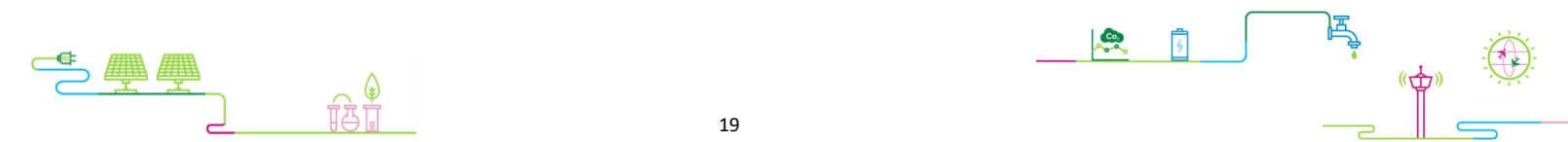
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Website

exxonmobil.com/aviation





SAF Registry

Global solution to SAF Accounting and Reporting

Welcome Alpha Airlines

Active SAF in the inventory
50,173 t

CO2 emissions abatement potential
110,982 t

Available for regulatory compliance
by fuel mass
1,234 t
CORSA
SAF inventory

Top Customers
by CO2 emissions reductions planned
Corporate A: 6,779 t
Corporate B: 4,584 t
My Customers

Top Producers / Suppliers
by fuel mass
Supplier A: 25,000 t
My Suppliers

SAF Inventory

No.	Issuer	SAF (Tonnes)	CO2 Red. (Tonnes)	Registrant	Type	Status
00000095	Supplier A	4000	8848	Airlines	Certificate	ACTIVE
00000096	Supplier A	3000	6636	Airlines	Certificate	ACTIVE
00000097	Supplier A	3500	7742	Alpha Airlines	Certificate	ACTIVE
00000098	Supplier A	4000	8848	Alpha Airlines	Certificate	ACTIVE
00000099	Supplier B	2500	5530	Alpha Airlines	Certificate	ACTIVE
00000100	Supplier A	2000	4424	Alpha Airlines	Certificate	ACTIVE
00000101	Supplier A	4000	8848	Alpha Airlines	Certificate	ACTIVE
00000102	Supplier A	5000	11060	Alpha Airlines	Certificate	ACTIVE
00000103	Supplier B	4000	8848	Alpha Airlines	Certificate	ACTIVE

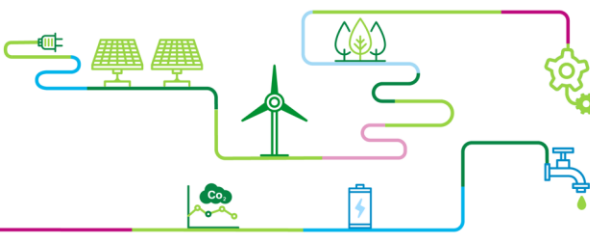
With SAF Registry, State Authorities can:

- Validate or accept SAF claims under CORSIA and ETS
- Maintain emissions inventory and reductions from SAF
- Inform State Action Plans
- Benefit at zero cost

Learn more



safregistry@iata.org



2024 ICAO LTAG STOCKTAKING

7 — 10 OCTOBER 2024
ICAO HEADQUARTERS, MONTREAL, CANADA



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IATA

Company description

IATA is a trade association that represents, leads and serves the airline industry. It improves understanding of the air transport industry among decision makers and increases awareness of the benefits that aviation brings to national and global economies. Advocating for the interests of airlines across the globe, IATA challenges unreasonable rules and charges and strives for sensible regulation. For over 70 years IATA has developed global commercial standards upon which the air transport industry is built. Its aim is to assist airlines by simplifying processes and increasing passenger convenience while reducing costs and improving efficiency. IATA helps airlines to operate safely, securely, efficiently, and economically under clearly defined rules. Professional support is provided to all industry stakeholders with a wide range of products and expert services. IATA now represents some 330 airlines in over 120 countries. Carrying 80% of the world's air traffic; IATA members include the world's leading passenger and cargo airlines.

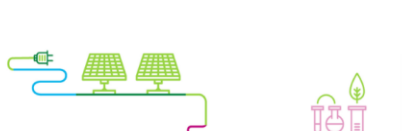
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