AVIATION CO_2 REDUCTIONS

STOCKTAKING SEMINAR

TECHNOLOGY · OPERATIONS · SUSTAINABLE AVIATION FUELS

Day 1

Time (EDT)	Session description
8.00-8.45	**Opening and green aviation high level keynotes** The opening session will introduce the objective and dynamic of the three-day event. Keynotes will be provided by Green Aviation Ambassadors.
8.45-9.45	**Setting the scene: challenges, trends and energy requirements for aviation** The first session of the event will aim to present the state of knowledge on climate change based on the IPCC findings, as well as to introduce the challenges, trends, achievements and prospects related to aviation. Powering aircraft with clean energy sources could be one of the keys to decarbonise the aviation sector. An overview of the potential CO_2 emissions reductions technologies will be presented, along with the energy requirements for the aviation sector and technical limitations.
9.45-10.00	BREAK
10.00-11.10	**Leaders' roundtable: roadmaps towards zero emissions** This high- level roundtable will provide inspiration from aviation leaders and decision makers on their roadmaps towards accelerating substantial progress to address climate change. It will open a dialogue on innovative approaches and help to understand the obstacles that need to be addressed in order to limit and reduce the impact of aviation on the climate. Participants will be invited to discuss methods to decarbonize the aviation sector including fuels, technologies and operations, and to provide details on their progress towards a zero emissions future for aviation. The session will be divided into two segments: a first exchange on high-level aviation leaders' zero emissions roadmaps, and a second one on innovative roadmaps, which will take place on Day 2.
11.10-11.25	BREAK
11.25-12.30	**Advanced aircraft technologies** Aircraft technologies are continuously evolving. Some of the latest advances on technologies with CO_2 emission reduction opportunities, including engines, aerodynamics and airframes, will be presented during this session, along with the achieved or expected results, entry into service and timeframe for scaling-up and implementation.
12:30-12:45	**End of day announcements**

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Day 2

Time (EDT)	Session description
8.00 – 8.15	**Welcome back**
8.15-9.15	**Leaders' roundtable: a new vision for the future** This high- level roundtable will provide inspiration from aviation leaders and decision makers on their roadmaps towards accelerating substantial progress to address climate change. It will open a dialogue on innovative approaches and help to understand the obstacles that need to be addressed in order to limit and reduce the impact of aviation on the climate. Participants will be invited to discuss methods to decarbonize the aviation sector including fuels, technologies and operations, and to provide details on their progress towards a zero emissions future for aviation. The session will be divided into two segments: a first exchange on high-level aviation leaders' zero emissions roadmaps, and a second one on innovative roadmaps, which will take place on Day 2.
9.15-9.30	BREAK
9:30-10:30	**Novel aircraft technological concepts** To meet the unprecedented climate challenges of today and tomorrow, novel aircraft technological concepts are being studied, designed and experimented. Novel aircraft concepts will be presented during the session along with expected results in terms of CO_2 emissions reductions, needs for their development and large-scale deployment, and the expected timeframes.
10:30-10:45	**BREAK**
10:45-11:45	**Air operations** In order to maximize the CO_2 reduction potential, it is essential to study and fully use our opportunities to fly more efficiently, as well as optimize air traffic management as much as possible. Information on latest advances, tools and technologies available will be presented as well as the results achieved or expected in terms of CO_2 reduction and their level of deployment.
11:45-12:45	**Ground operations** Operations taking place on the ground have great potential to deliver concrete and rapid results in terms of aviation in-sector CO_2 emissions reduction, by enhancing ground operations improvements and by providing the necessary infrastructure to improve the efficiency of the aviation sector as a whole. Quantitative, results and timeframes will be presented.
12:45-12:50	**End of day announcements**

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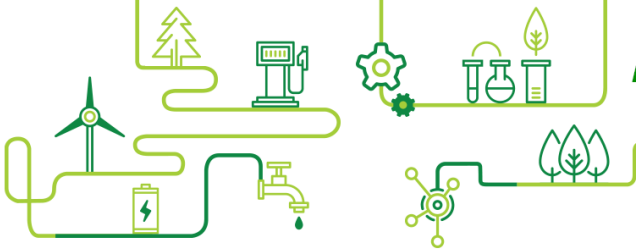

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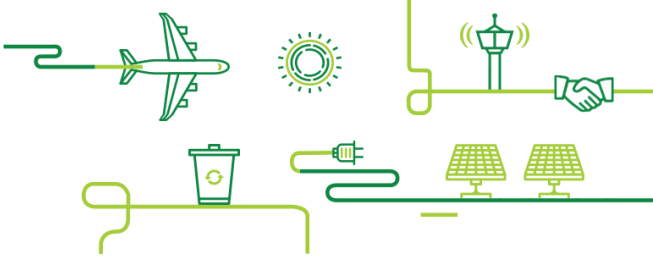

Day 3

Time (EDT)	Session description
8.00–8.15	**Welcome back**
8:15-9:30	**Clean energy** Clean energy sources, such as renewable electricity, hydrogen, solar or wind could help to enable the aviation sector's energy transition. The state and maturity of the technologies will be presented, along with their potential in terms of CO_2 emissions reductions, the expected timeframe, energy networks and infrastructure aspects and the planning required.
9:30-9:45	**BREAK**
9:45-10:00	**Sustainable Aviation Fuels (SAF) – Frequently Asked Questions** This brief session will provide an introduction to sustainable aviation fuels by answering frequently asked questions about this topic. This session will address common misconceptions and provide an opportunity for all stakeholders to become familiar with SAF before the detailed SAF sessions.
10:00-11:10	**Sustainable Aviation Fuels (SAF)** Sustainable aviation fuels are one of the key pillars to achieve the transition towards a more climate friendly air transport. Progress made outside and within the aviation community, including ICAO activities, will be presented during the session. Maturity of technologies, the rate and level of deployment, timeframe, results in terms of life-cycle CO_2 emissions reductions and additional opportunities will also be discussed.
11:10-11:25	**BREAK**
11:25-12:35	**SAF competitiveness and scale-up** Initiatives on and uses of sustainable aviation fuels have multiplied in recent years. Nevertheless, they face major challenges, including price, infrastructure and feedstock availability that may limit their development and deployment. The session will discuss means to overcome such challenges now and in the future.
12:35-12:45	**End of day announcements**

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Day 4

Time (EDT)	Session description
8.00 – 8.15	**Welcome back**
8:15-9:15	**Passenger-focused opportunities** People are at the heart of the transition towards a more sustainable aviation sector and further in-sector CO_2 emissions reductions. This session will consider innovative and creative approaches such as improved mobility, circular economy, and initiatives that spark the awareness and involvement of passengers to reduce in-sector CO_2 emissions.
9:15-9:30	BREAK
9:30-10:30	**Financing emissions reductions** The transition towards a decarbonised aviation sector requires high levels of financing. It is one of the great challenges of the sector. This session will aim to present means and initiatives to finance large-scale reductions in CO_2 emissions. Participants will be asked to provide precise inputs such as on the type and level of financing required and policies needed and associated CO_2 emissions reductions.
10:30-11:30	**Boosting innovation and implementation** Achieving the transition towards a sustainable aviation sector is a challenging task and a range of private and public initiatives, including the means to continue to boost innovation and shorten the path from knowledge to implementation of solutions, will likely be needed. Information presented will include expected results and the level of potential resources mobilized.
11:30-11:45	BREAK
11.45-12.30	**Closing Roundtable** Leaders from the aviation industry will be invited to close this event by providing their thoughts on the content presented throughout the course of the event.
12:30-12:45	**Closing**

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