







AVIATION CO₂ REDUCTIONS
STOCKTAKING SEMINAR
TECHNOLOGY · OPERATIONS · SUSTAINABLE AVIATION FUELS
 28 - 29 APRIL 2020 | MONTRÉAL, CANADA

Time	Session description	
AM 1 8.30-8.45	<u>Welcome and introduction</u>	
AM 2 8.45-9.30	<u>Setting the scene: challenges, trends and perspectives</u> 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.	
9.30-10.15	<u>Setting the scene: energy requirements for aviation</u> 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.	
10.15-10.45	Morning coffee	
AM 3 10.45-12.15	<u>Leaders' roundtable: a new vision for the future</u> This roundtable will provide an opportunity to hear from aviation sector 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 overcome to limit and reduce the impact of aviation on the global climate. Participants will be invited to discuss methods to decarbonize the aviation sector including fuels, technologies and operations, and to provide quantitative CO ₂ emissions reductions.	
12.15-13.45	Lunch	
PM 1 13.45-15.15	<u>Advanced aircraft technologies</u> 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.	<u>Clean energy infrastructure</u> Airports have great potential to deliver concrete and rapid results in terms of CO ₂ emissions reduction, by providing the necessary infrastructure for the transition to clean energy sources for the aviation sector as a whole to happen. Key points will be discussed, such as interfaces with cities, energy networks and needs for renewable energy such as solar and wind. Quantitative targets, results and timeframes will be presented.
		
15.15-15.45	Afternoon coffee	
PM 2 15.45-17.15	<u>Novel aircraft technological concepts</u> 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.	<u>Sustainable Aviation Fuels: state of play</u> Sustainable Aviation Fuels are one of the key pillars to achieve the transition towards a more climate friendly air transport. Progress made within the aviation community, including ICAO activities, will be presented during the session. Maturity of technologies, the rate and level of deployment, timeframe and results in terms of CO ₂ emissions reductions will also be discussed.
		
Evening 17.15-19.15	Cocktail / Networking	

Day 1



Air traffic optimization

AM 1
8.30-10.00

Optimising air traffic management helps the sector to reduce CO₂ emissions. Information on the latest advances, new tools, as well as on the level of deployment of these systems will be presented, along with achieved or expected results.



Fuel environmental sustainability

Ensuring the environmental integrity of aviation fuels is fundamental in order to achieve climate related goals. Inspiring initiatives will be presented during the session, along with expected results in terms of CO₂ emissions reductions on a life-cycle basis and additional opportunities that they can bring.



10.00-10.30

Morning coffee

Flight efficiency improvements

AM 2
10.30-12.00

In order to maximize the CO₂ reduction potential, it is essential to continue to adopt more efficient flight measures. Information on the latest initiatives, tools and new technologies available for piloting aircraft more efficiently will be presented during the session, along with the possibilities they offer in terms of CO₂ reduction and their level of deployment.



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.



12.00-13.30

Lunch

Day 2

Boosting innovation and implementation

PM 1
13.30-14.45

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.



Financing emissions reductions

PM 2
14.45-16.00

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 CO₂ emissions. Participants will be asked to provide precise inputs such as on the type and level of financing required, policies needed and associated CO₂ emissions reductions.



16.00-16.30

Afternoon coffee

PM 3

Closing Session

16.30-17.00

A summary of discussions and an overview of next steps within ICAO will be provided during the closing session of the event.