

# Objectives of the ICAO Stocktaking process, Stocktaking Seminar and Online Stocktaking Preview

## Jane Hupe

Deputy Director, Environment, Air Transport Bureau International Civil Aviation Organization





09.20 - 09.40

09.40 - 10.20

10.20 - 10.30

10.30 - 11.20

# Online Stocktaking Preview

		Agenda
Time in EDT	Session Title	
(Montreal time)		

Introduction 09.00 - 09.20

> Jane Hupe (ICAO) - Objectives of the ICAO Stocktaking process, face-to-face Seminar in September and this online Stocktaking Preview

**Setting the scene** 

• Neil Dickson (ICAO) - Aviation in-sector CO<sub>2</sub> emissions reductions: Trends and achievements

Climate change and aviation

Damon Matthews (Concordia University, IPCC) - The current state of knowledge on climate

change

David Lee (MMU) - CO<sub>2</sub> impacts of aviation

**Break** 

Reducing aviation CO<sub>2</sub> emissions - Challenges and solutions

Neil Dickson (ICAO) - Reductions from technologies, fuels and operations Toshimasa Masuyama and Francisco Boshell (IRENA) - Opportunities for renewable energies

Jacob Teter (IEA) - Transition towards clean energies: global overview & opportunities for aviation

11.30 - 12.00 The Stocktaking Seminar and the next steps Jane Hupe (ICAO) - The Stocktaking process, a key for aviation's work on a Long Term

Aspirational Goal



# **Vision**

Achieve the sustainable growth of the global civil aviation system.



# **Mission**

To serve as the global forum of States for international civil aviation.

## **ICAO Strategic Objectives:**

Safety Security

Security & Facilitation

**Environmental Protection** 

Air Navigation Capacity and Efficiency

Economic Development of Air Transport

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### **ICAO** Environmental Goals

# ICAO Strategic Objective Environmental Protection:

Minimize the adverse effect of global civil aviation on the environment

the number of people affected by significant aircraft **noise** 

the impact of aviation GHG emissions on global climate

Limit or reduce the impact of aviation emissions on local air quality (LAQ)

















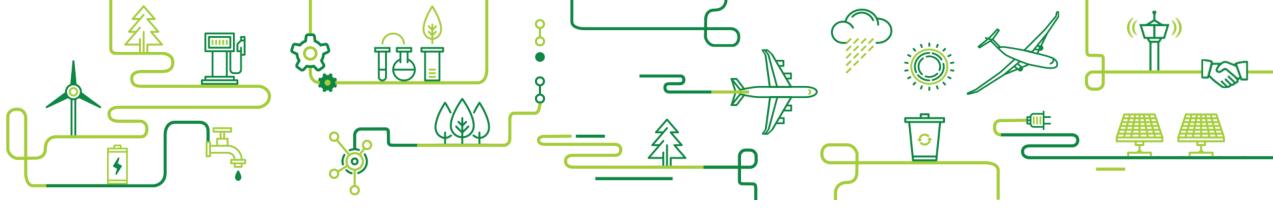




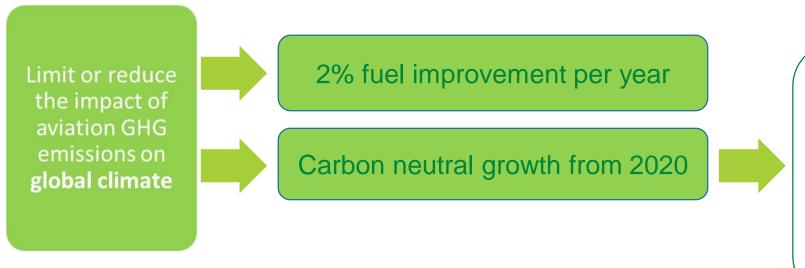




Quantify Mitigate Implement



# ICAO GLOBAL ASPIRATIONAL GOALS







STOCKTAKING 2020

Explore the feasibility of a long term aspirational goal

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# ICAO Stocktaking Process – **Main Goals**

- "Take stock" of Member States' and stakeholders' progress on aviation in-sector CO2 emissions reductions
  - Collecting data on:

**Technology** 



**Operations** 



**Sustainable Aviation** Fuels (SAF)



Support the work on the feasibility of a long-term global aspirational goal for international aviation







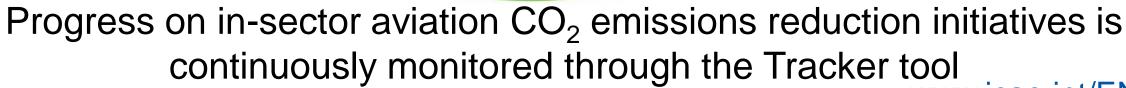






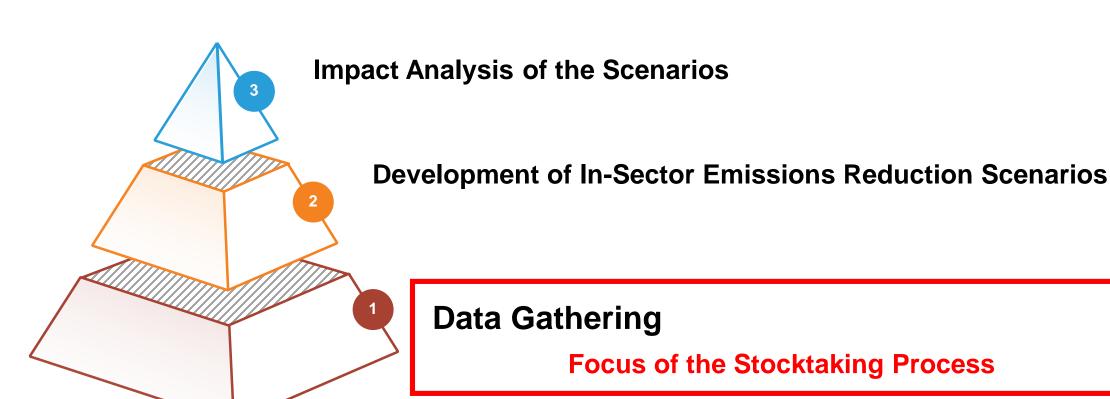
# Three "in-sector reduction streams" aligned with the Global Coalition for Sustainable Aviation





# — ICAO Stocktaking Process

Interactions with ICAO work on the feasibility of a long-term global aspirational goal for international aviation



# STOCKTAKING 2020

# **Stocktaking Process**



**Questionnaires Open invitation** 



Connection **Seminars** and workshops



Coordination **Hundreds of** stakeholders contributing

# LTAG work



1 - Data Gathering



2 - Scenarios **Development** 



**□** 3 – Final Analysis

# The ICAO Stocktaking Process

- Information provided by States and International Organizations at the Stocktaking Seminars
- Submissions of ICAO Stocktaking Questionnaires
- Publicly available information

Past	Current	Next
First ICAO Stocktaking Seminar (Sustainable Aviation Fuels)  30 April – 1 May 2019	Online Stocktaking Preview 28 April 2020	ICAO Stocktaking Seminar 8 – 10 September 2020



# ICAO Stocktaking Process First ICAO Stocktaking Seminar toward the 2050 Vision for Sustainable Aviation Fuels (SAF) – Background



# **Objectives:**

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Collect data on SAF

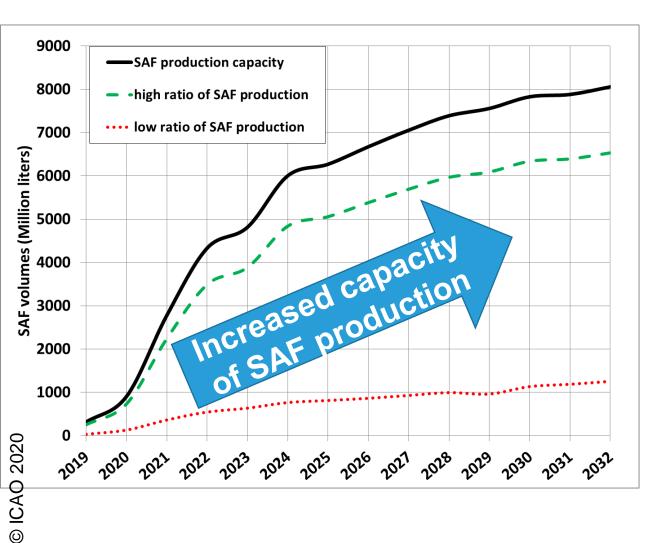
Aggregate data on SAF

Assess progress on SAF

## **Outcomes:**

- Policies/regulatory frameworks
  - International collaboration for SAF certification
- Financing
  - Need to ensure flexibility and lower capital risk
- Assistance
  - Technical and financial assistance could trigger initiatives
- Outreach:
  - clarify misconceptions, communicate in a simple manner, showcase SAF progress

# ICAO Stocktaking Process First ICAO Stocktaking Seminar toward the 2050 Vision for Sustainable Aviation Fuels (SAF) – Background



## **Results:**

Looking to the future - capacity for SAF production will continue to increase

But one major uncertainty exists:

What will the share of SAF production be compared to other fuels?



## The ICAO Stocktaking Process continues

## The First ICAO Stocktaking **Seminar:**

- Provided a detailed update on the progress of sustainable aviation fuels
- Integrated knowledge from a range of experts from across disciplines
- Relevant results obtained

# **Expanded Scope –** All In-Sector CO<sub>2</sub> Emissions:



# **Technologies**



# **Operations**



# **Sustainable Aviation**

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# ICAO Stocktaking Process First Step – Online Stocktaking Preview

#### Aim:

- Foster participation in the Stocktaking Process
- Set the scene for the face-to-face event in September
- Share knowledge on:
  - The current state of knowledge on climate change: Damon Matthews, Concordia University, Canada. Contributing author to IPCC Working Group I.
  - CO<sub>2</sub> impacts of aviation: David Lee, Prof. Atmospheric Science and Director, Centre for Aviation, Transport, and the Environment (CATE), Manchester Metropolitan University, UK
  - Reductions from technologies, fuels and operations: Neil Dickson, Chief, Environmental Standards Section, ICAO Secretariat
  - Opportunities for renewable energies: Toshimasa Masuyama, Bioenergy Analyst, and Francisco Boshell, Analyst in Markets and Standards, International Renewable Energy Agency (IRENA)
  - Transition towards clean energies: global overview & opportunities for aviation: Jacob Teter, Energy and transport Analyst, International Energy Agency (IEA)

















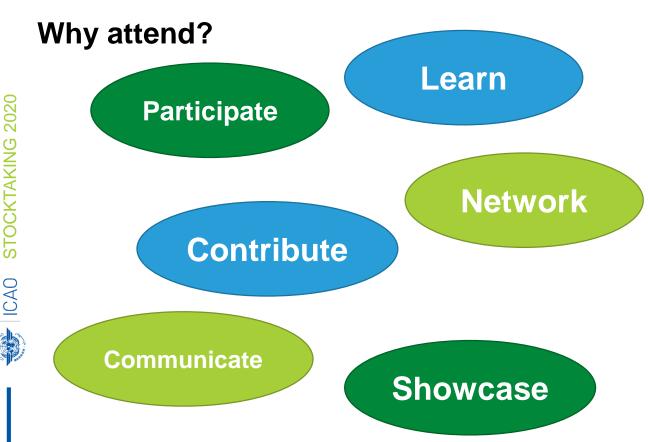
# NEXT: Stocktaking Seminar on aviation in-sector CO<sub>2</sub> emissions reductions

Quantify Open sector dialogue STOCKTAKING 2020 emissions ICAO Headquarters Montréal, Canada Take Support long stock of 8 to 10 September 2020 term approaches Understand Network **Explore** obstacles feasibility

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# **2020 ICAO Stocktaking Seminar**



### Who will attend?

- Policy and decision makers from ICAO Member States,
- Airlines, airports, fuel producers, manufacturers, environmental groups, energy companies, financial groups, aviation marketing agents, and other organizations,
- Technical experts and researchers from the entire fuel supply chain, and
- Additional interested parties and individuals.



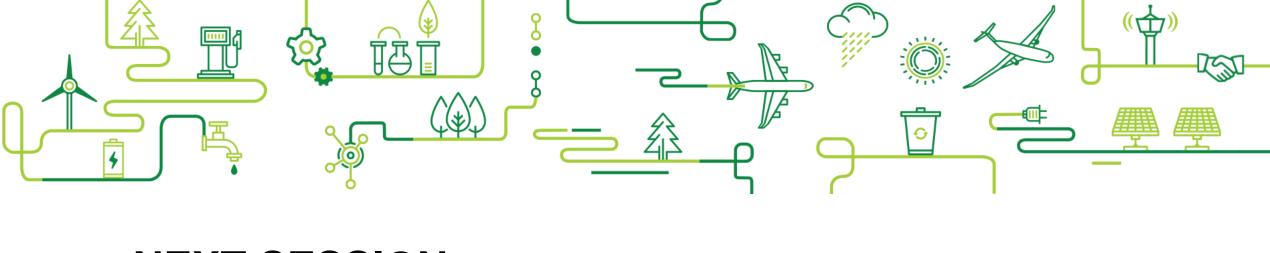
# **ICAO Stocktaking Process**

### How to get involved

- Register for the ICAO Stocktaking Seminar (8 to 10 September 2020)
- Respond to the Questionnaire on CO<sub>2</sub> emissions reductions
- Submit a Video that can be shared on the ICAO webpage
- Exhibit your work in a booth during the Stocktaking Seminar
- Share these details with your colleagues, partner organizations, and alma mater
  - Academics will have the chance to showcase their work in a Poster session

Contact officeenv@icao.int for more information





# **NEXT SESSION**

**09.20-09.40 EDT – Setting the scene** 

Aviation in-sector CO<sub>2</sub> emissions reductions: challenges, trends and achievements

# Thank You

ICAO Headquarters . Montréal

European and North Atlantic (EUR/NAT) Office Paris

> Middle East (MID) Office

Western and Central African (WACAF) Office Dakar

> Asia and Pacific (APAC) Office Bangkok

**Asia and Pacific** 

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