

## Overview of ICAO work on the field of Environmental Protection

#### Ms. Jane Hupe

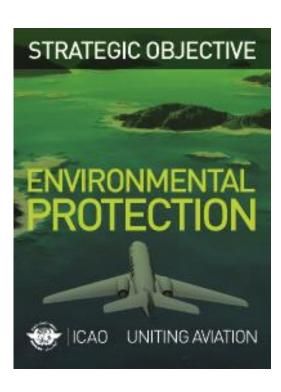
Deputy Director, Environment, International Civil Aviation Organization (ICAO)



### STOCKTAKING 2020

#### ICAO STRATEGIC OBJECTIVE

Minimize the adverse effect of global civil aviation on the environment



#### ICAO ENVIRONMENTAL GOALS

Limit or reduce the number of people affected by significant aircraft noise

Limit or reduce the impact of aviation GHG emissions on global climate

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

Mitigate

Quantify **Implement** 

#### ICAO GLOBAL ASPIRATIONAL GOALS ON CLIMATE CHANGE

the impact of aviation GHG emissions on global climate



2% fuel improvement per year



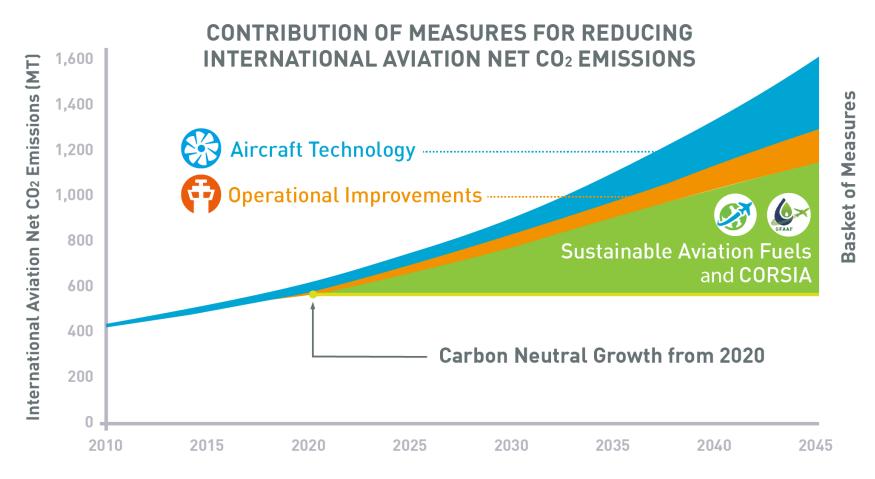
Carbon neutral growth from 2020

Explore the feasibility of a long term aspirational goal (LTAG)



## ICAO STOCKTAKING 2020

#### ICAO'S BASKET OF CO<sub>2</sub> MITIGATION MEASURES



Based on CAEP/11 Analysis (Feb/2019)

# | ICAO STOCKTAKING 2020

#### ICAO'S BASKET OF CO2 MITIGATION MEASURES

#### **PROGRESS TO DATE**

Aircraft technology	First-ever global CO <sub>2</sub> certification Standard for new types and in- production aeroplanes. Fast-paced innovation (new designs, composite materials, hybrid-electric aircraft, renewable energy sources, etc.).	
Operational improvements	CO <sub>2</sub> benefits from air traffic management; air navigation; green airports; etc.	
Sustainable aviation fuels	Around 250,000 commercial flights with drop-in aviation fuels; 8 conversion processes; 9 airports distributing drop-in aviation fuels	
Market-based measures	Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)	

### O STOCKTAKING 2020

### ICA0

#### ICAO STATE ACTION PLANS



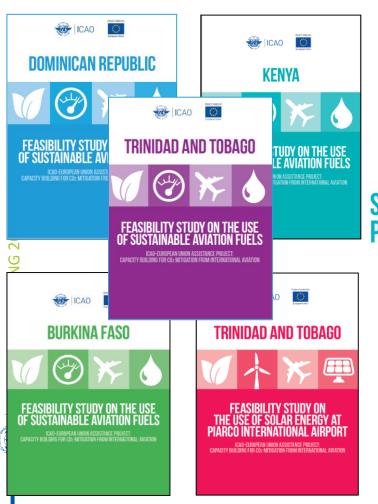
#### 119 States

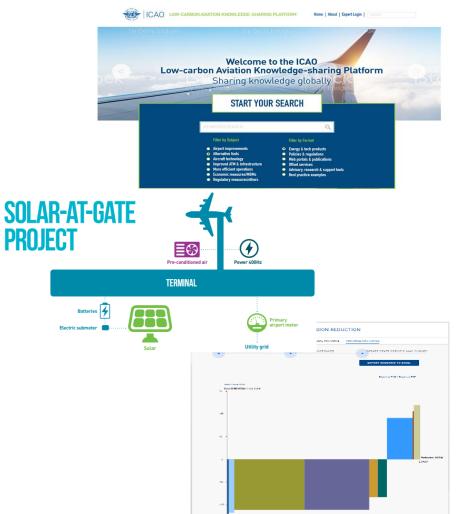
representing 97.39% of global RTK have voluntarily submitted a State Action Plan to ICAO

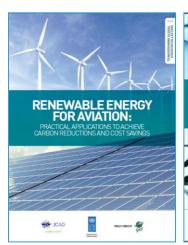
SEPTEMBER 2020

10 YEARS
ANNIVERSARY

#### ICAO ASSISTANCE PROJECTS - BRINGING INNOVATION TO ACTION







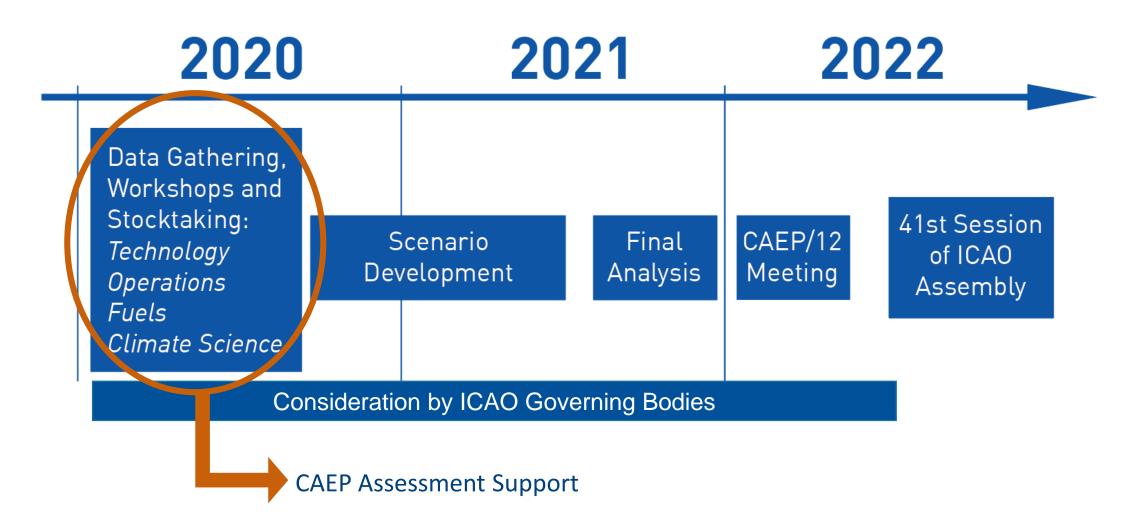




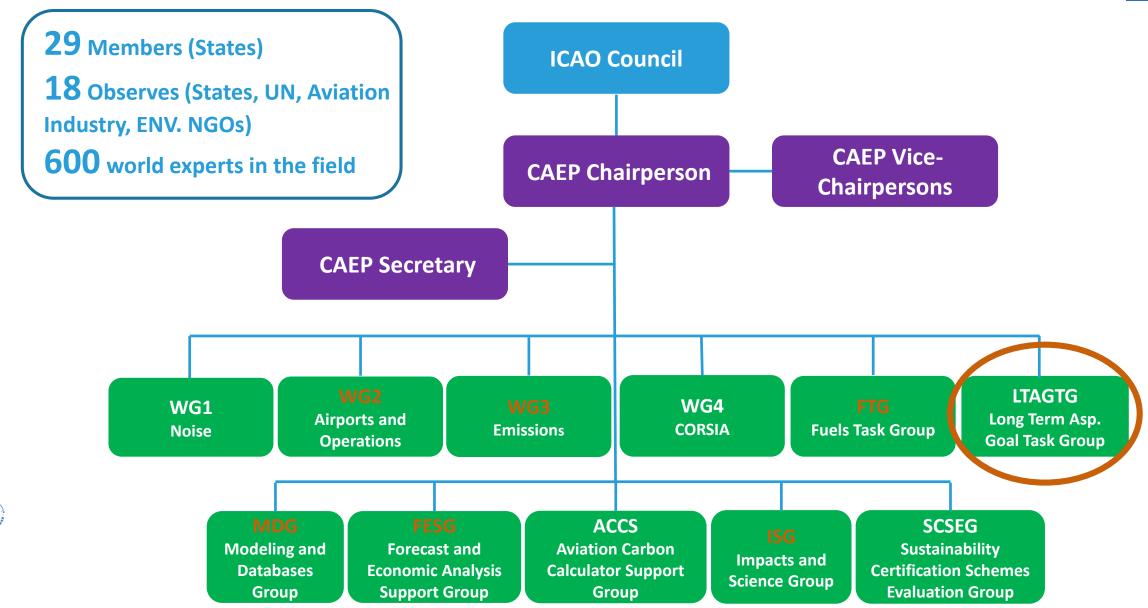


# STOCKTAKING 2020

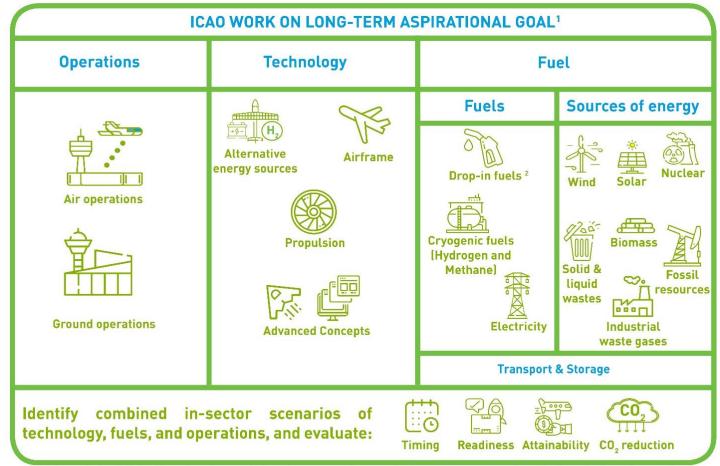
#### GENERAL LONG TERM ASPIRATIONAL GOAL (LTAG) WORK TIMELINE



#### COMMITTEE ON AVAITION ENVIRONMENTAL PROTECTION - CAEP



#### LONG TERM ASPIRATIONAL GOAL (LTAG)



This work should identify and evaluate existing, foreseen, and innovative in-sector measures in technology, fuels and operations, and their enablers, including information of probable costs. This will assist in identifying gaps, and information and expertise n needed, in order to complete a thorough assessment of all in sector  $CO_n$  reductions for international aviation. This should include timing, readiness, attainability and the quantity of CO, reduction possible, based on a feasible roll out into the aviation sector. <sup>2</sup> Sustainable Aviation Fuels (SAF), Low Carbon Aviation Fuels (LCAF), E-Fuels. Icons made by Freepik from www.flaticon.com

- **ICAO 40th Assembly** (2019) – Exploration of the feasibility of a Long-Term Global Aspirational Goal (LTAG) for international aviation
- **Open & Inclusive**
- Existing, foreseen and innovative measures.
- **New activities** are arising which could further reduce aviation emissions
- Focused on **in-sector** measures © ICAO 2020



## ICAO STOCKTAKING 2020

#### ICAO STOCKTAKING PROCESS – MAIN GOALS

 "Take stock" of Member States' and stakeholders' progress on aviation in-sector CO<sub>2</sub> emissions reductions

Collecting data on:





Sustainable Aviation Fuels



- Solutions, innovations, visions, roadmaps
- Questionnaires CLOSE TO 100 QUESTIONNAIRES !!!!
- Support the ICAO work on the feasibility of a long-term global aspirational goal (LTAG) for international aviation











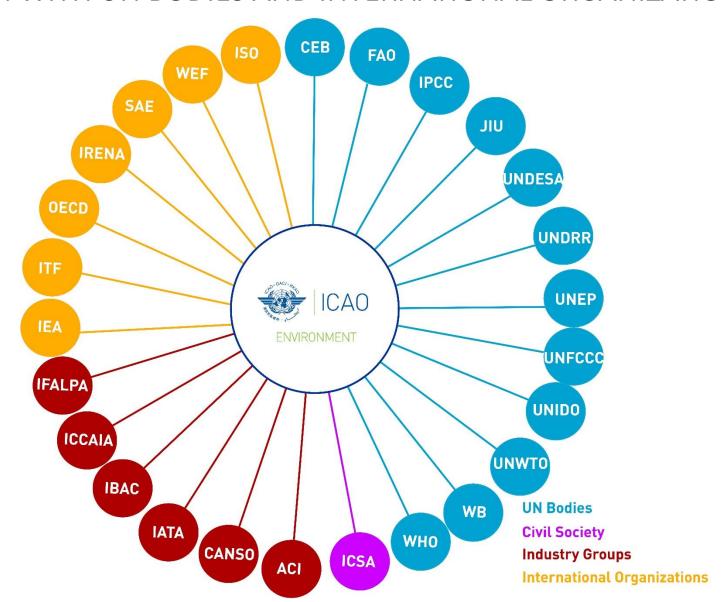


#### GLOBAL COALITION FOR SUSTAINABLE AVIATION



- Progress on in-sector aviation CO<sub>2</sub> emissions reduction initiatives is continuously monitored through the Tracker tool
- ICAO public website www.icao.int/ENV

#### COOPERATION WITH UN BODIES AND INTERNATIONAL ORGANIZATIONS



#### UNITED NATIONS FRAMEWORK



ICAO's work on Environment addresses

14 of the 17 UN 2030

SDGs











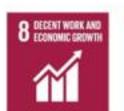


















### UNITED NATIONS SECRETARY GENERAL Six Climate-related Actions to Shape COVID-19 Recovery

- 1. As we spend huge amounts of money to recover from the coronavirus, we must deliver new jobs and businesses through a clean, green transition.
- 2. Where taxpayers' money is used to rescue businesses, it needs to be tied to achieving green jobs and sustainable growth.
- 3. Fiscal firepower must drive a shift from the grey to green economy and make societies and people more resilient.
- 4. Public funds should be used to **invest in the future**, not the past, and flow to sustainable sectors and projects that help the environment and the climate. Fossil fuel subsidies must end and polluters must start paying for their pollution.
- 5. Climate **risks and opportunities** must be incorporated into the financial system, as well as all aspects of public policymaking and infrastructure.
- 6. We need to work together as an international community.









PLANS











ON

TOOLS

RING

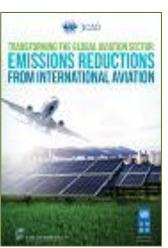
CORSIA

**ACT-CORSIA** 











\*SAVE THE DATE: ICAO Aviation Green Recovery Seminar - Time to build back better (23 -25 Nov.)

For more information, please visit our website: http://www.icao.int/env

#### Thank You

ICAO Headquarters Montréal

European and North Atlantic (EUR/NAT) Office Paris

Western and Central African (WACAF) Office

Dakar

Middle East (MID) Office

Asia and Pacific (APAC) Office Bangkok

Asia and Pacific (APAC) Sub-office Beijing

North American Central American and Caribbean (NACC) Office Mexico City

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