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Introduction to ICAO and ICAO's Environmental Activities

Jane Hupe

Deputy Director, Environment, ICAO





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Vision

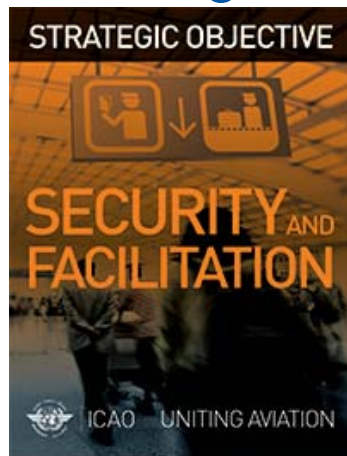
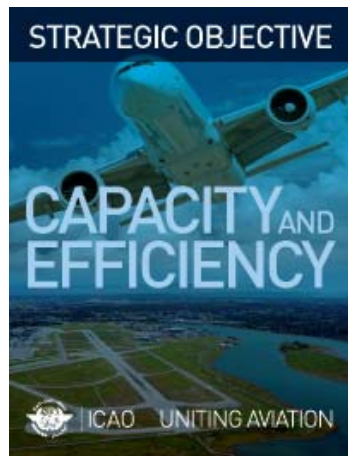


Mission

Achieve the sustainable growth of the global civil aviation system.

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

ICAO Strategic Objectives

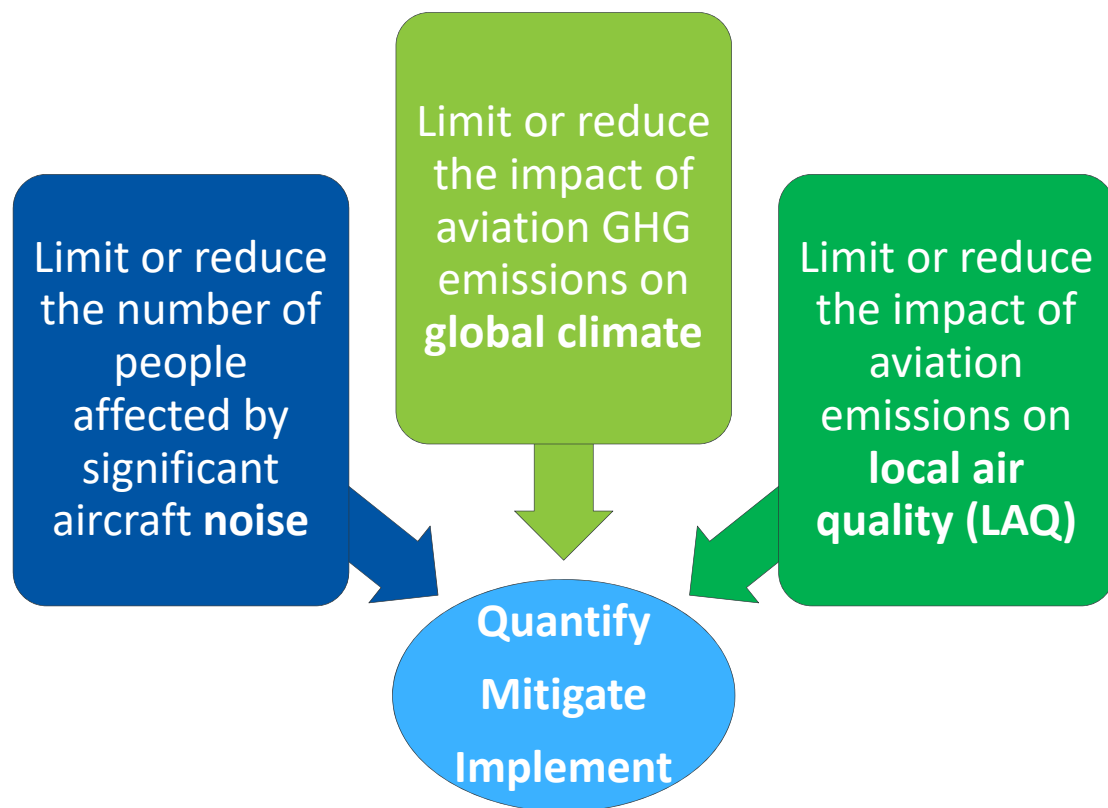




ICAO Environmental Goals

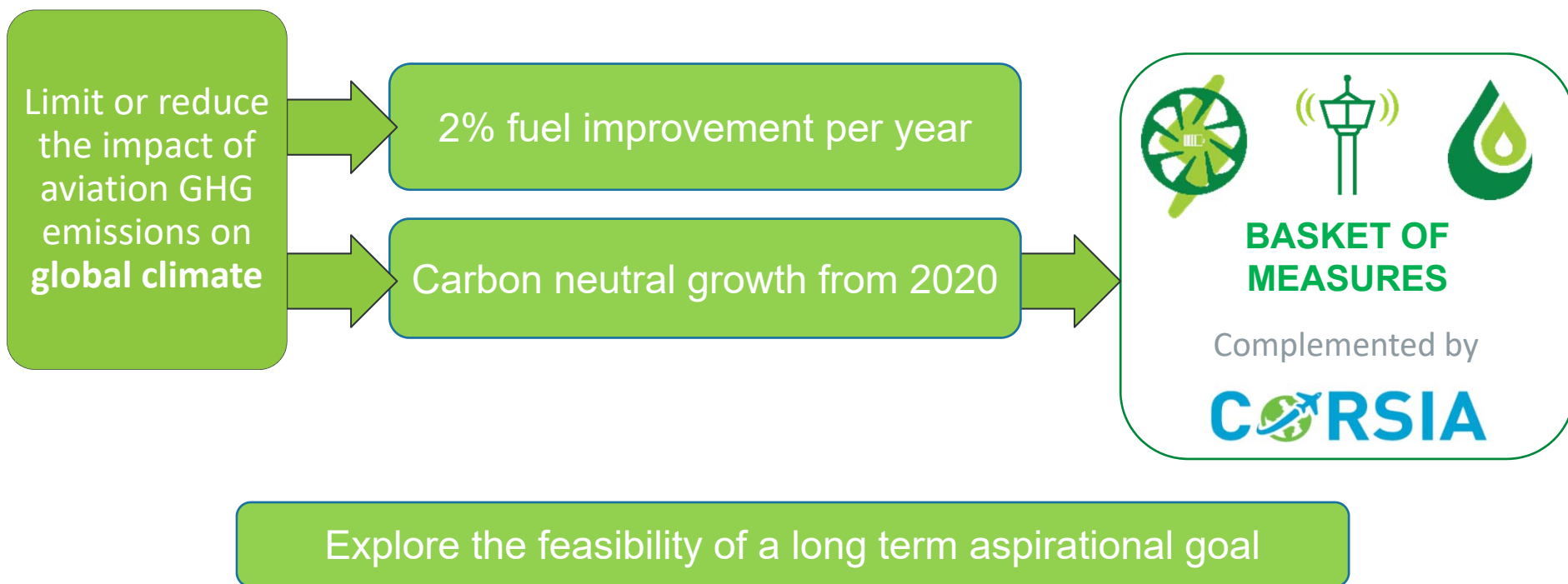
ICAO Strategic Objective Environmental Protection:

Minimize the adverse effect of global civil aviation on the environment





ICAO Global Aspirational Goals





Basket of CO₂ mitigation measures

Aircraft technology	First-ever global CO₂ 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 ₂ 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 (CORSA)	



State Action Plan Journey – Timeline

2010

- Launch of the initiative (A37-19)

2013

- A38-18 reaffirmed State commitment to the initiative

2015

- Launched the Environmental Benefits Tool (EBT)

2011

- Launch of the APER website
- Publication of Doc 9988
 - Regional seminars

2014

- Regional seminars
- Launched the ICAO-European Union (EU) Assistance Project
- Launched the ICAO Assistance Project with UNDP, financed by GEF



State Action Plan Journey – Timeline

2016

- A39-2 reaffirmed commitment
 - Launched SAP Buddy Programme
- Updated Doc 9988 and ICAO Fuel Savings Estimation Tool

2018

- Launched online training course through UN:CC Learn

2020

- **10-year anniversary of SAP**
 - Regional seminars
- Launched Phase II of the ICAO-EU Assistance Project
 - More to come...

2017

- Regional seminars
- Developed feasibility studies

2019

- A40-18 reaffirmed commitment
- Successfully concluded the two assistance projects
 - Updated Doc 9988



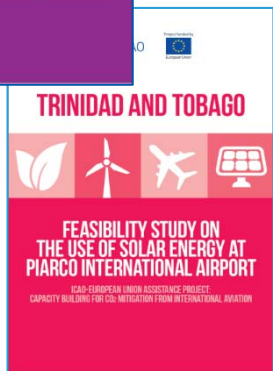
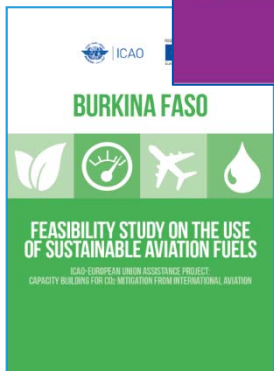
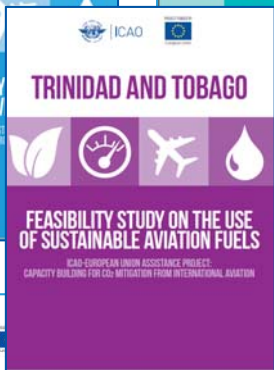
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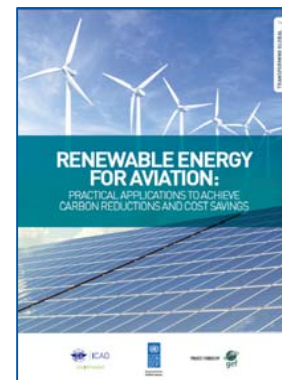
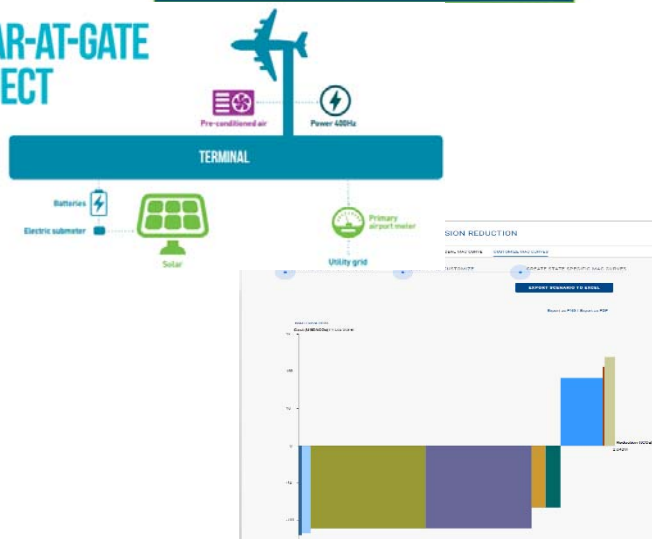
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Outcomes of the ICAO Assistance Projects

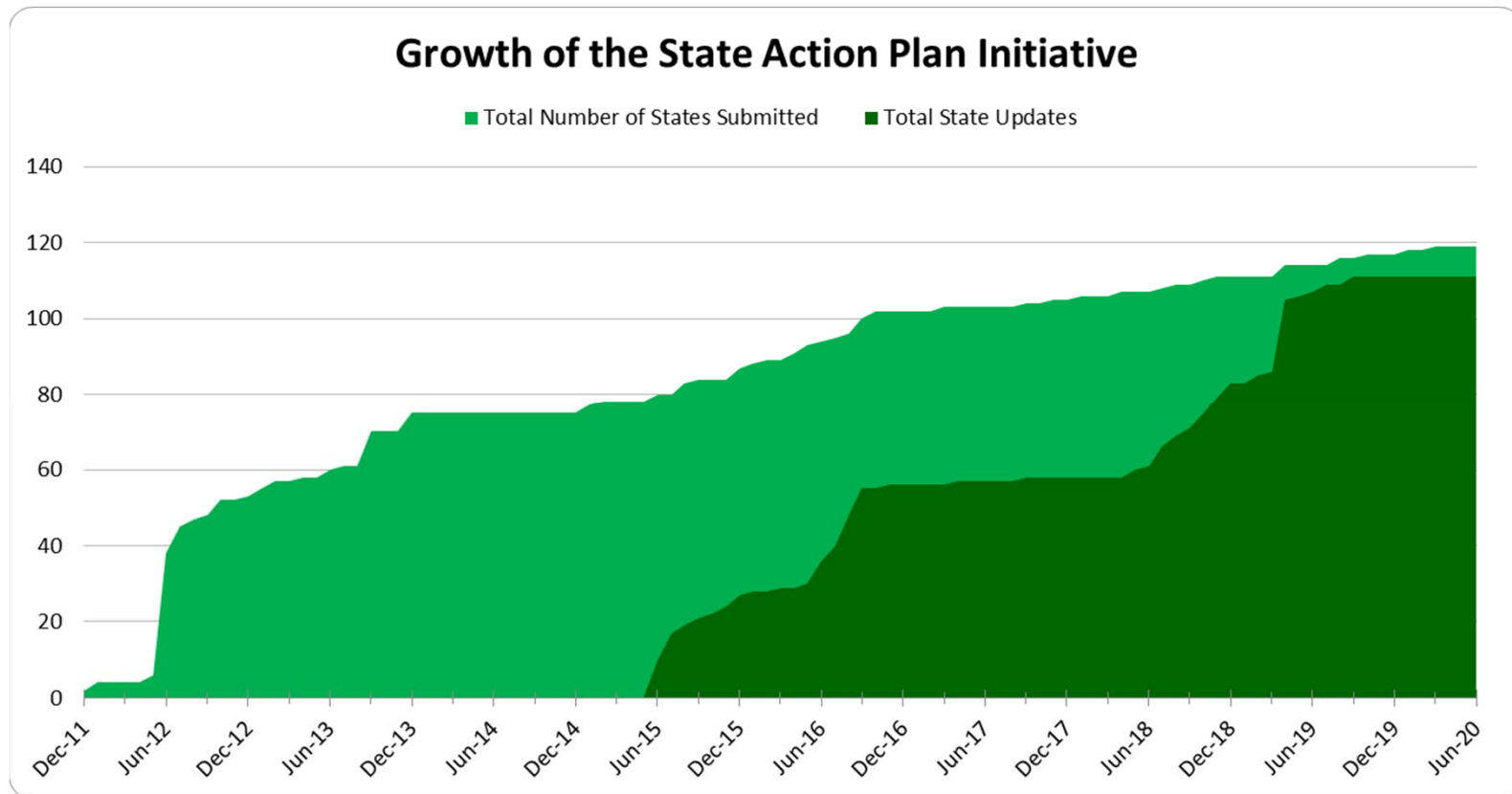


SOLAR-AT-GATE PROJECT





State Action Plan Journey – Results

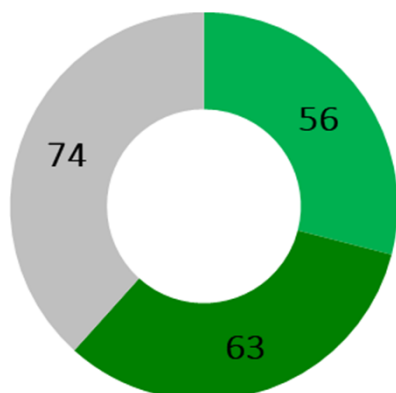




State Action Plan Journey – 2020 Status

119 States representing 97.39% of global RTK have voluntarily submitted their State Action Plan to ICAO

Global SAP Submissions / Updates



- States Submitted Once
- States Updated
- States left to submit





State Action Plan Journey – 2020 Next Steps

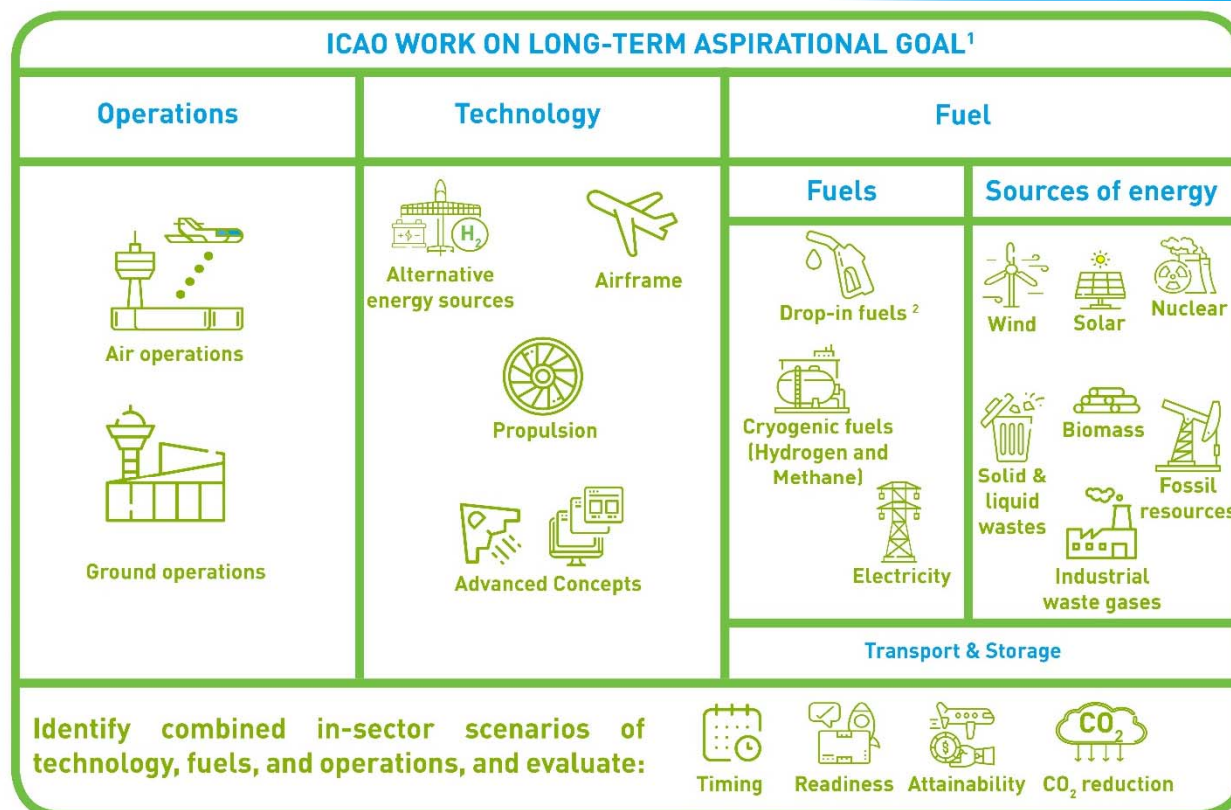
Identifying and defining relationships between State Action Plans and other ICAO work

- ICAO Work on the Feasibility of a Long-Term Aspirational Goal for International Aviation
 - Focuses on assessing global progress on the three **in-sector** emissions reductions measures
 - Results will be presented to the 41st Session of the ICAO Assembly (2022)
- ICAO Stocktaking Process
 - Information collected through the Stocktaking process, will feed into the LTAG process (Step 1 – Data Gathering)
- CORSIA
 - To achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG2020), CORSIA is **one complementary element in the basket of measures**



Considering New Actions within the Basket of Measures

- New activities are arising which could further reduce aviation emissions
- Focused on assessing the three **in-sector** emissions reductions measures



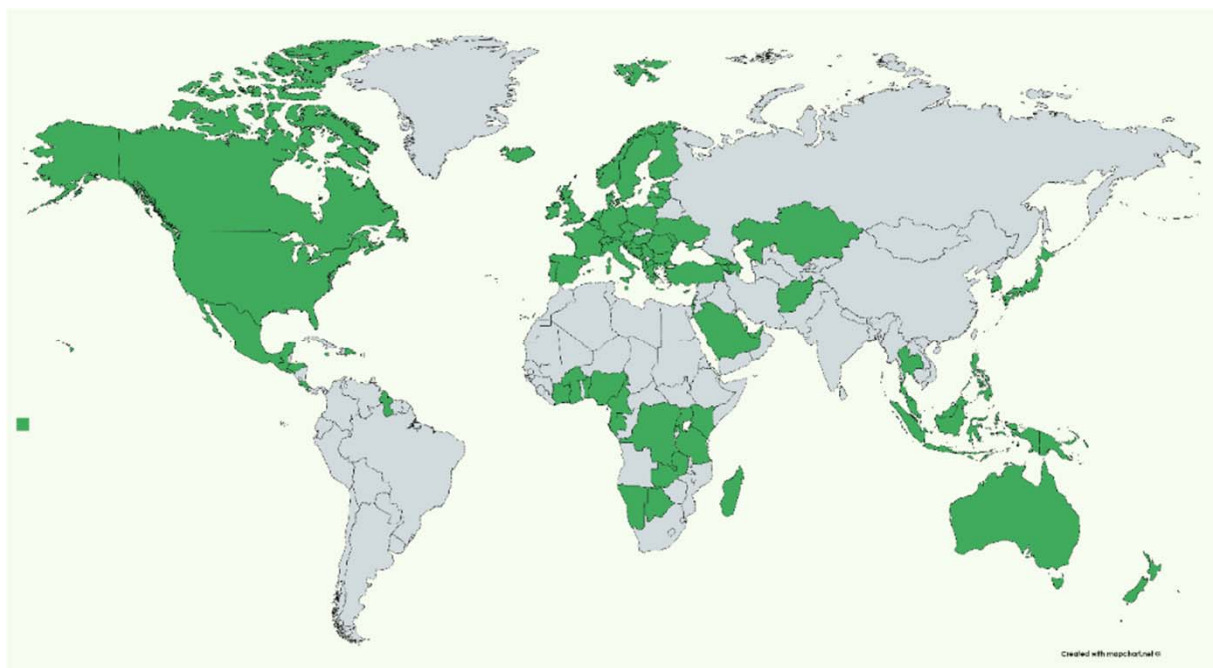
¹ This work should identify and evaluate existing, foreseen, and innovative in-sector measures in technology, fuels and operations, and their enablers, including information of probable costs. This will assist in identifying gaps, and information and expertise needed, in order to complete a thorough assessment of all in sector CO₂ reductions for international aviation. This should include timing, readiness, attainability and the quantity of CO₂ reduction possible, based on a feasible roll out into the aviation sector.

² Sustainable Aviation Fuels (SAF), Low Carbon Aviation Fuels (LCAF), E-Fuels. Icons made by Freepik from www.flaticon.com



CORSIA is complementary to the basket of measures

**88 Voluntary States,
representing
76.82% of
international
RTK, for 2021**





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.



Conclusions

- This **10-year anniversary** is an opportunity to encourage all States to develop and update their **fully quantified** State Action Plans
- Robust State Action Plans could provide an opportunity for States to access **green financing** in the wake of COVID-19
- ICAO will continue to pursue the establishment of additional **assistance projects**
- ICAO will continue to explore **innovative green measures** for use in State Action Plans
- We must **Build Back Better** within the aviation industry!



ICAO Public Website

www.icao.int/env



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STATE ACTION PLANS

HOW ICAO IS COORDINATING AND PROVIDING ASSISTANCE TO STATES ON EFFECTIVE EMISSIONS REDUCTION PLANNING

ICAO / Environmental Protection

- Home
- Scientific Understanding
- Environmental Trends
- Technology Goals & Standards
- Aircraft Noise
- Local Air Quality
- Climate Change
- State Action Plans
- Capacity Building and Assistance
- Airports
- CAEP
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Environmental Protection



SUSTAINABLE AVIATION FUELS



STATE ACTION PLANS



CAEP



TOOLS



KNOWLEDGE SHARING PLATFORM



CORSIA



GFAAF



ENV REPORT



E-HAPI

UPCOMING EVENTS:

28 April 2020 – Online Stocktaking Preview: Reducing Aviation In-Sector CO₂ Emissions
8-10 September 2020 – ICAO Stocktaking Seminar on aviation in-sector CO₂ emissions reductions

5 June 2020 – World Environment Day 2020



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(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



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