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ICAO CAPACITY BUILDING SEMINAR ON LOW EMISSIONS AVIATION MEASURES

States' strategy to deal with international aviation emissions: ICAO State Action Plans

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Outline

- Background on ICAO
- ICAO Environmental Policies, Standards and Recommended Practices
- ICAO State Action Plan Initiative
 - History
 - Purpose
 - Content
 - ICAO's Role
 - Current Status
- Summary



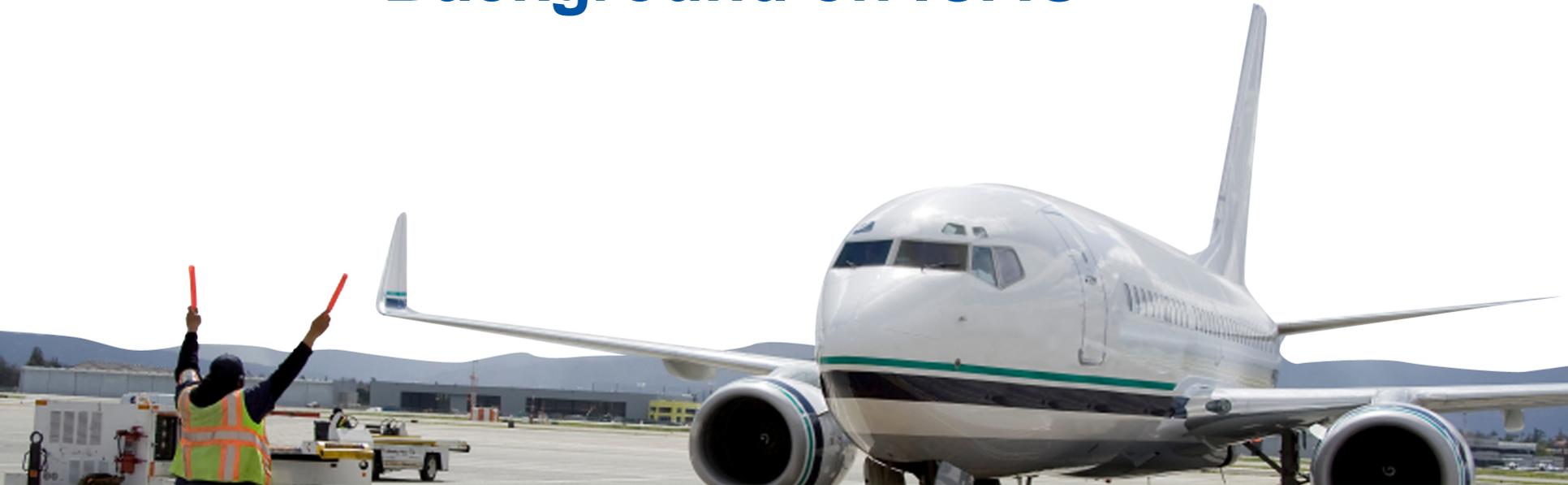
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Background on ICAO







Vision	Mission
<p>Achieve the sustainable growth of the global civil aviation system.</p>	<p>To serve as the global forum of States for international civil aviation.</p> <p>ICAO develops policies and Standards, undertakes compliance audits, performs studies and analyses, provides assistance and builds aviation capacity through many other activities and the cooperation of its Member States and stakeholders.</p>

ICAO Strategic Objectives:

Safety

Air Navigation Capacity and Efficiency

Security & Facilitation

Economic Development of Air Transport:

Environmental Protection



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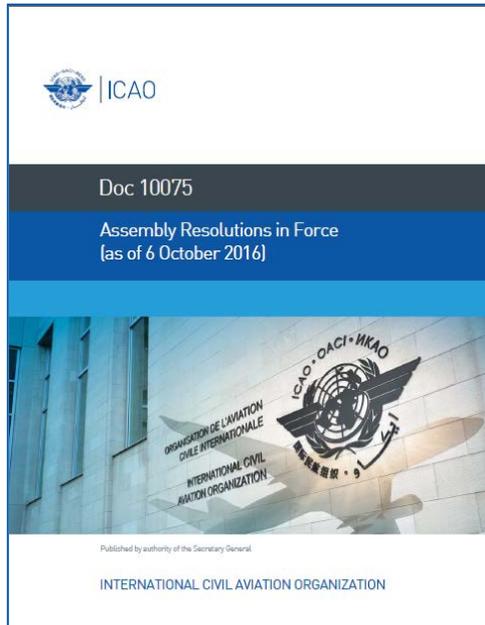


ICAO Environmental Policies, Standards and Recommended Practices





ICAO Environmental policies are defined in the ICAO Assembly Resolutions



A39-1: Consolidated statement of continuing ICAO policies and practices related to environmental protection — **General provisions, noise and local air quality**

A39-2: Consolidated statement of continuing ICAO policies and practices related to environmental protection — **Climate change**

A39-3: Consolidated statement of continuing ICAO policies and practices related to environmental protection — **Global Market-based Measure (MBM) scheme**

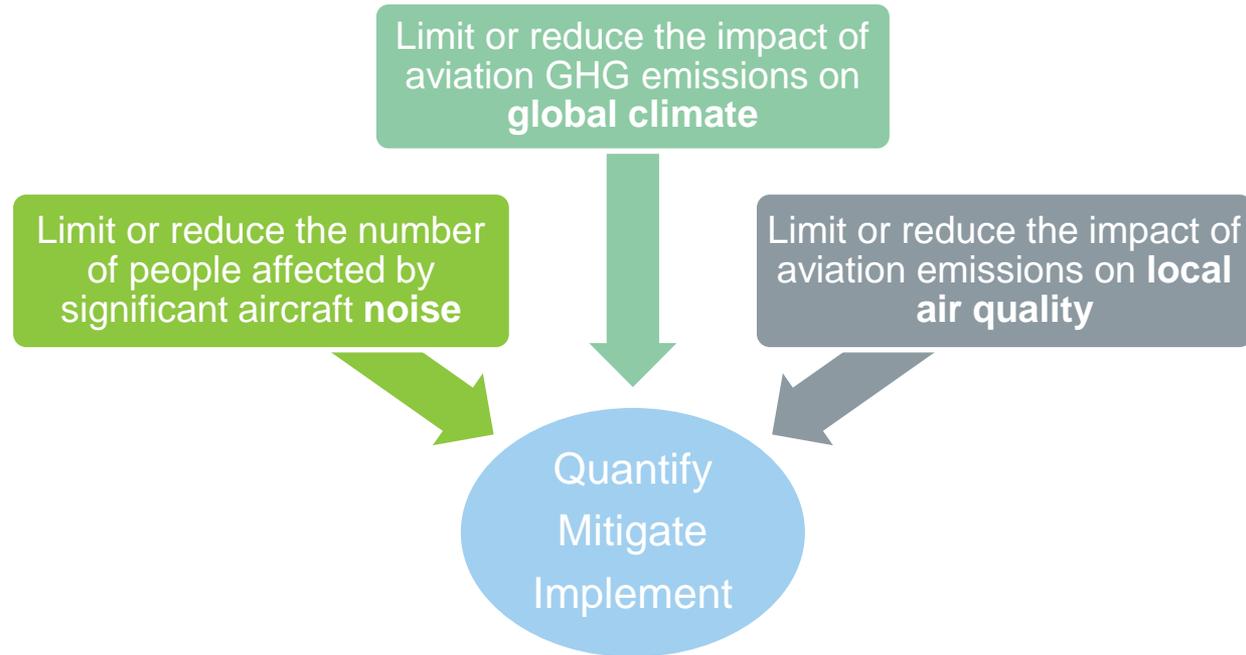
https://www.icao.int/Meetings/a39/Documents/Resolutions/10075_en.pdf



ICAO Environmental Goals

ICAO Strategic Objective on Environmental Protection:

Minimize the adverse effect of global civil aviation on the environment





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ICAO State Action Plan Initiative





History

- Initiative established in 2010 with the adoption of Assembly Resolution **A37-19**:

9. *Encourages* States to submit their action plans outlining their respective policies and actions, and annual reporting on international aviation CO₂ emissions to ICAO;

- Reaffirmed support in 2013 with ICAO Assembly Resolution **A38-18**:

- *Para 11: “action plans should include information on the basket of measures considered by States, reflecting their respective national capacities and circumstances, and information on any specific assistance needs”*

- And reaffirmed support in 2016 with ICAO Assembly Resolution **A39-2**:

- *Para 11: “Invites those States that choose to prepare or update action plans to submit them to ICAO” and include “quantified information on the expected environmental benefits from the implementation of the measures chosen from the basket”*

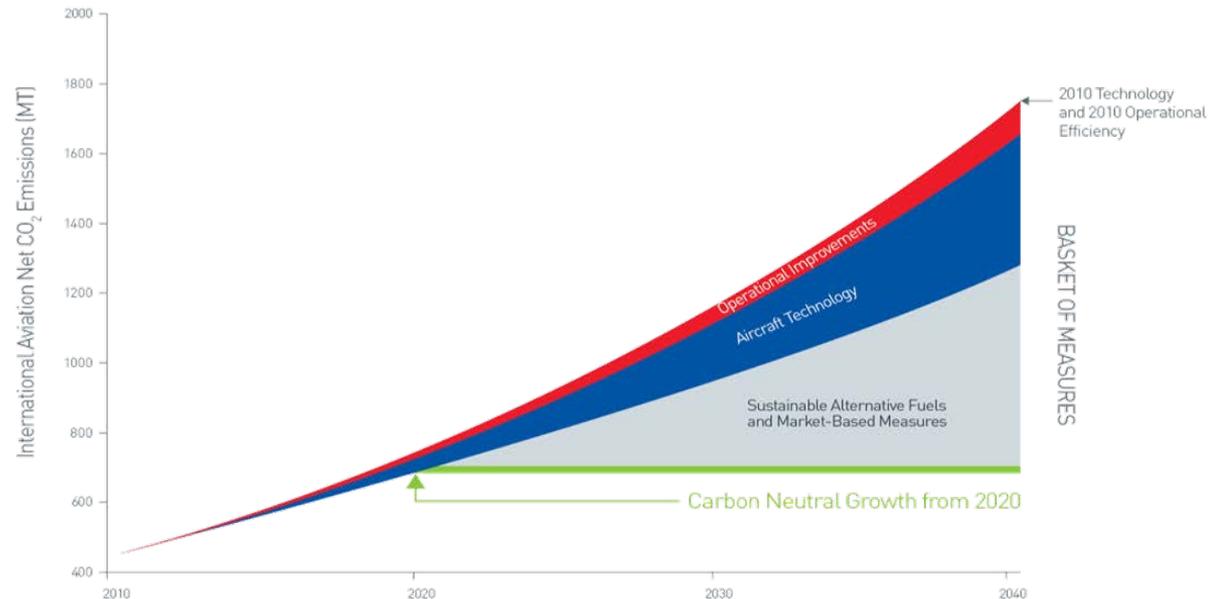
- *Para 12: “Encourages States that have already submitted action plans to share information contained in action plans and build partnerships with other member States in order to support those States that have not prepared action plans, and to make the submitted action plans available to the public, taking into account the commercial sensitivity of information contained in States’ action plans”*



Purpose

- For States
 - Opportunity to identify measures that will improve fuel efficiency and reduce emissions
- For ICAO
 - Assess future progress toward the achievement of ICAO global aspirational goals

Contribution of Measures for Reducing International Aviation Net CO₂ Emissions





Minimum Content

1

Contact information

2

Baseline (without action) fuel consumption CO₂ emissions and traffic (2010 or earlier to 2050)

3

List of selected mitigation measures

4

Expected results (fuel consumption, CO₂ emissions and traffic with the actions in #3 being taken 2017 to 2050)

5

Assistance needs

- ICAO assesses all submitted State Action Plans against the same criteria



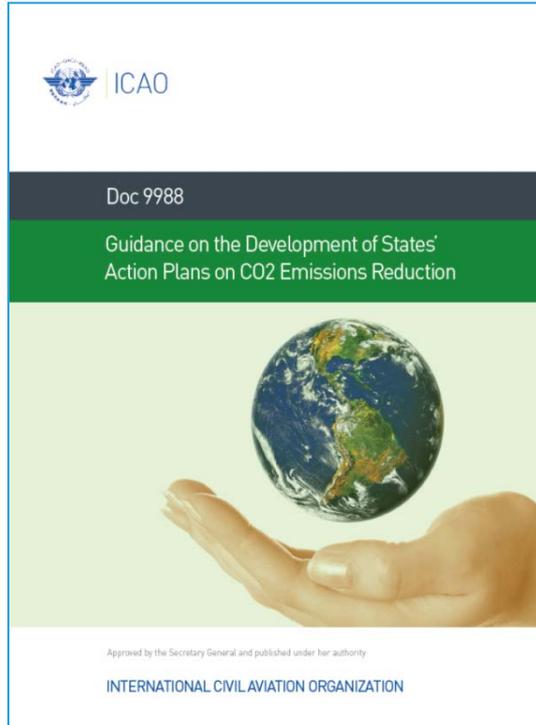
ICAO's Facilitating Role

ICAO has facilitated the States' Action Plans initiative since 2010 by:

- developing guidance material and tools
- organizing workshops and training seminars
- enabling capacity-building and assistance projects
 - ICAO / European Union Joint Assistance Project
 - ICAO / UNDP Joint Assistance Project financed by the Global Environment Facility (GEF)
- partnering States through the Buddy Programme



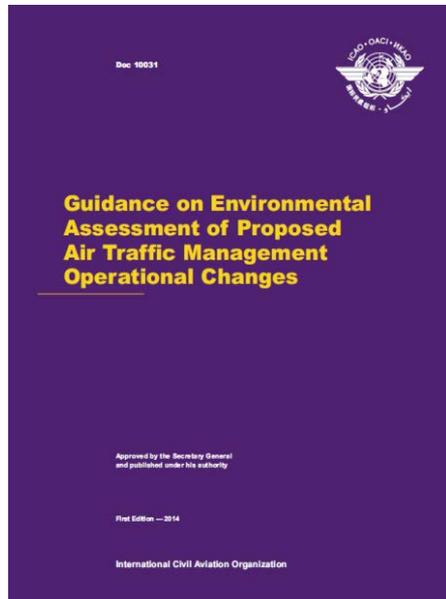
Guidance: ICAO Doc 9988



- State Action Plan Focal Points have dedicated access to Doc 9988 through the ICAO Secure Portal Action Plan for Emissions Reduction (APER) webpage
- It describes the required elements of a State Action Plan and provides a step-by-step guide on how to develop it
 - Overview and introduction
 - Baseline calculation
 - Mitigation measures and expected results
 - Implementation and assistance
 - Appendix with examples and detailed information



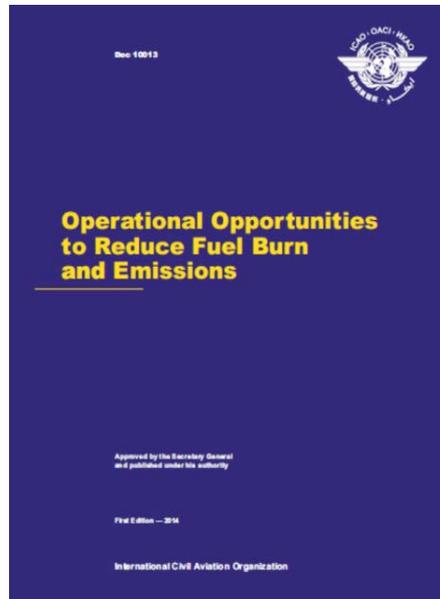
Supporting guidance



ICAO Doc 10031

Assessment of environmental effects from operations changes

Available on ICAO public website



ICAO Doc 10013

Airport operations, maintenance, weight reduction, air traffic management etc.

Available on APER website



ICAO Environmental Tools Suite

Public ICAO Environmental Tools:



ICAO Carbon Emissions Calculator

Allows passengers/cargo to estimate CO₂ emissions from air travel



ICAO Fuel Savings Estimation Tool (IFSET)

Assists States in estimating fuel savings from operational improvements



ICAO Green Meetings Calculator

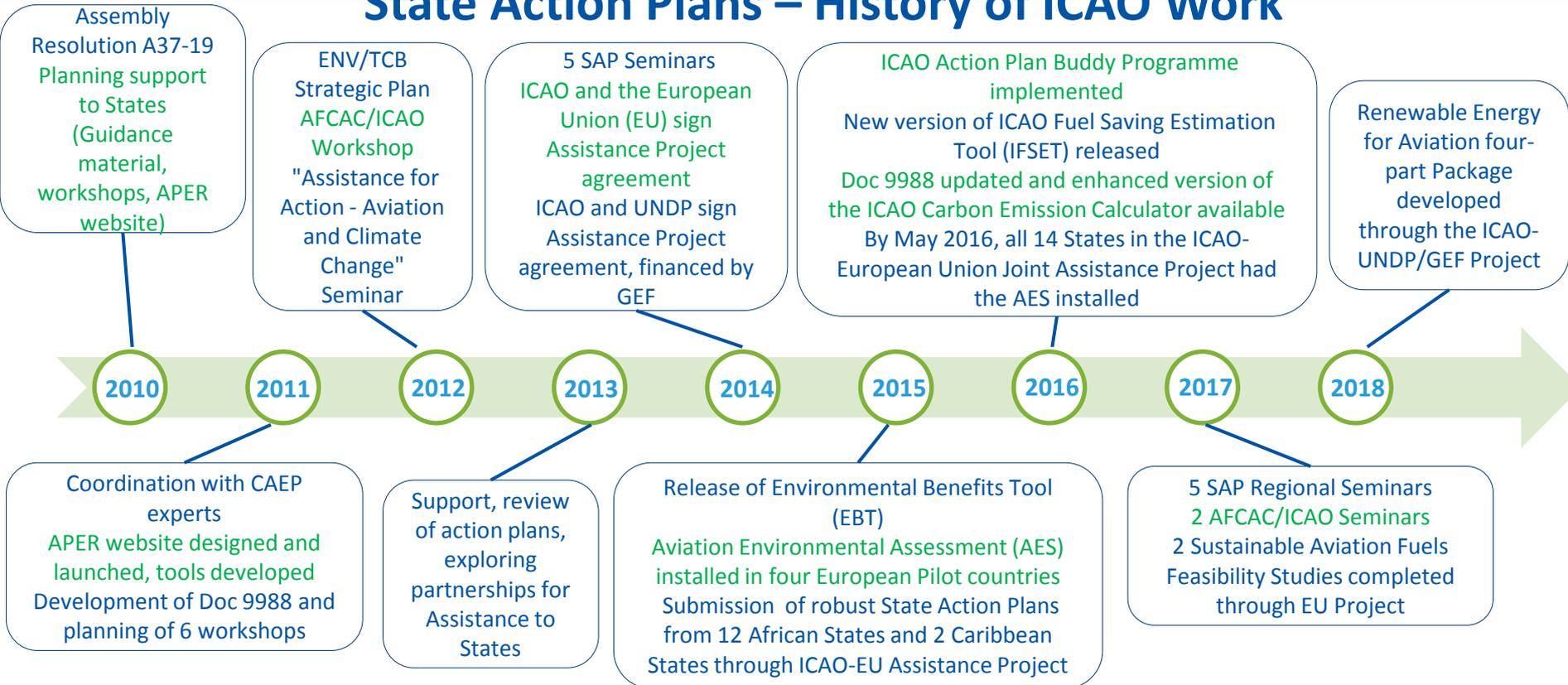
Supports decision making in minimizing CO₂ emissions from air travel to attend meetings

Additional to facilitate the preparation of State's Action Plans:

- *ICAO Environmental Benefit Tool*
Helps States to develop their Action Plan (Baseline, Mitigation Measures, Expected Results)
- *ICAO Aviation Environmental System (AES)*
Allows CAAs to monitor CO₂ emissions from international aviation at State level

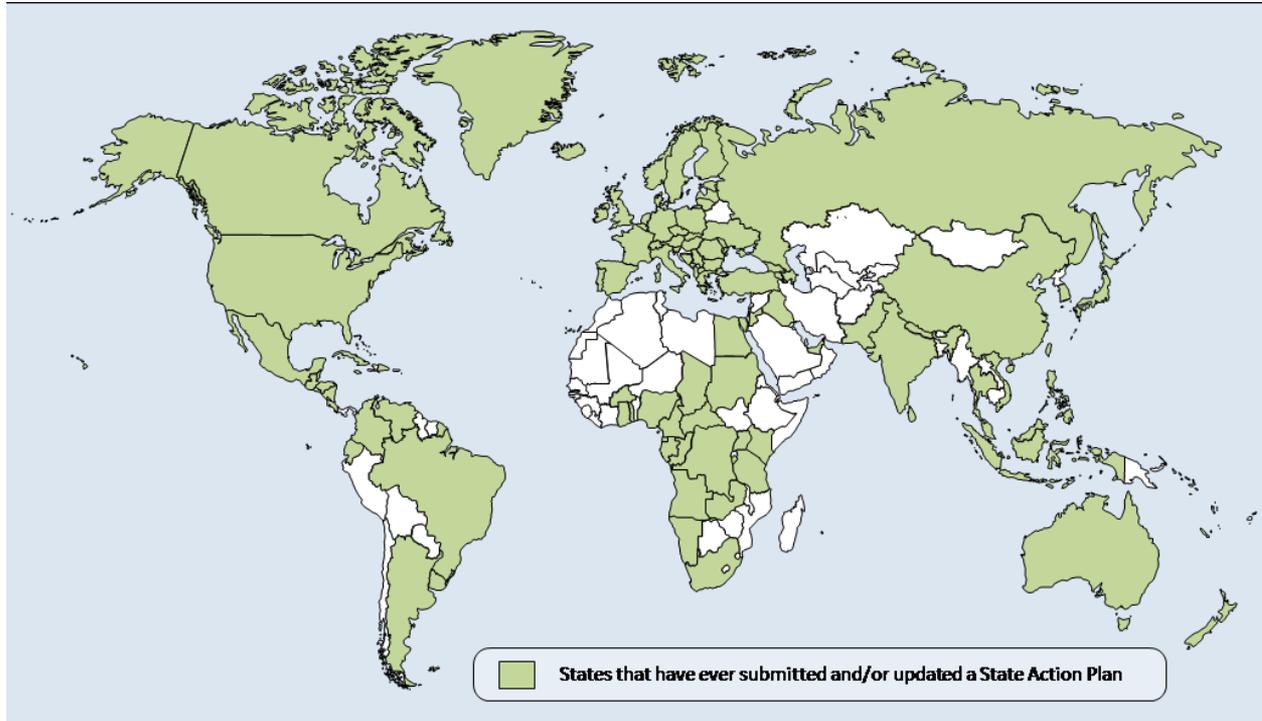


State Action Plans – History of ICAO Work





Current Status



106 States representing
>90% of global RTK have
submitted an action plan
to ICAO

1171 experts trained from
132 States

5 ICAO Buddy Partnerships

2 capacity-building and
assistance projects



ICAO capacity building, assistance, and partnerships

- **Facilitate financing for development and implementation of States' Action Plans**
 - ICAO-EU project: *Capacity Building for CO₂ Mitigation from International Aviation*
 - ICAO-UNDP project: *Transforming the Global Aviation Sector: Emission Reduction from International Aviation*

- **Support States for the implementation of CORSIA**
 - ICAO-Germany *Small-Scale Implementation Project of the CORSIA MRV system*

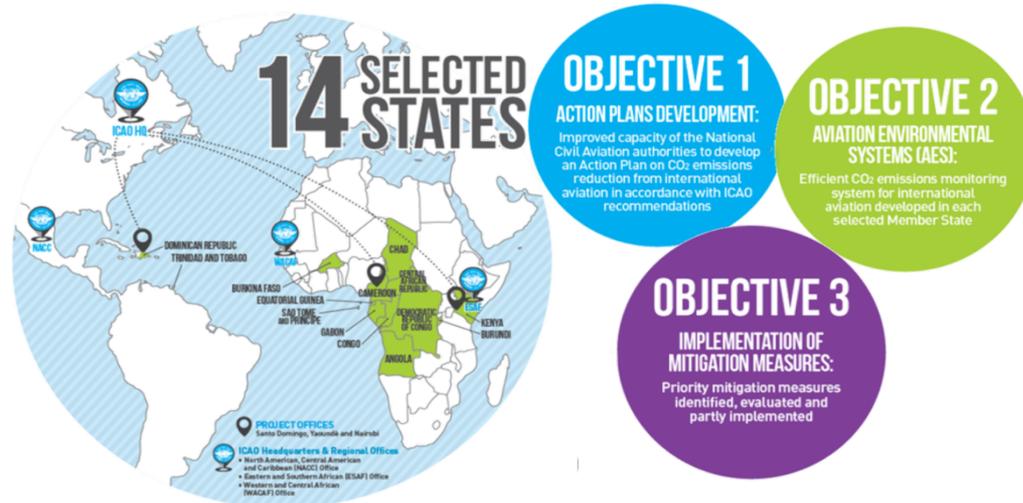
- **Various projects supporting the basket of measures for international aviation**
 - United Nations Framework Convention on Climate Change (UNFCCC)
 - United Nations Institute for Training and Research (UNITAR)
 - Accreditation with the Green Climate Fund (GCF)



ICAO capacity building, assistance, and partnerships, continued

→ ICAO-EU project *Capacity Building for CO₂ Mitigation from International Aviation*

→ ICAO-UNDP project *Transforming the Global Aviation Sector: Emission Reduction from International Aviation*



- Development of guidance documents on Sustainable Aviation Fuels, Renewable Energy, Governance, and Financing of Clean Energy projects
- Implementation of a pilot project on renewable energy at two international airports in Jamaica



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North American
Central American
and Caribbean
[NACC] Office
Mexico City

South American
[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



THANK YOU