



ICAO

International Civil Aviation Organization  
North American, Central American and Caribbean Office

WORKING PAPER

ANI/WG/5 — WP/06  
24/05/19

**Fifth NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/5)**  
Mexico City, Mexico, 27 to 31 May, 2019

**Agenda Item 2.1: Review and Follow-up to Valid Conclusions/Decisions of the ANI/WG/04, NACC/WG/05 and GREPECAS/18 Meetings**

**2.1 Follow-up and performance and monitoring assessment of the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (RPBANIP)**

**2.1.2 Progress report by States of Adopted Aviation System Block Upgrades (ASBU) B0 and B1 Modules**

**STATES ACTION PLANS ON CO2 EMISSIONS REDUCTION ACTIVITIES  
FOR INTERNATIONAL CIVIL AVIATION**

(Presented by Secretariat)

**EXECUTIVE SUMMARY**

This working paper presents the implementation status of the States Action Plans on CO2 Emissions reduction activities for International Civil Aviation and makes reference to the basket of measures to limit or reduce emissions from international civil aviation; the working paper invites the Meeting to consider that both, national actions as well as activities implemented regionally related to the basket of measures, be included during the preparation and/or update of States' Action plans in accordance with the Consolidated Statement of continuing ICAO policies and practices related to environmental protection.

<b>Action:</b>	Suggested actions are presented in section 3
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"><li>• Air Navigation Capacity and Efficiency</li><li>• Environmental Protection</li></ul>
<i>References:</i>	<ul style="list-style-type: none"><li>• Resolution 2 from Assembly 39 (A39-2): Consolidated statement of continuing ICAO policies and practices related to environmental protection – Climate change</li><li>• A39-3: Consolidated statement of continuing ICAO policies and practices related to environmental protection – Global Market Based Measure (MBM) scheme</li><li>• Guidance on the Development of States' Action Plans on CO2 Emission Reduction —Doc 9988.</li></ul>

## **1. Introduction**

1.1 States' action plans on CO<sub>2</sub> emissions reduction activities are a planning and reporting tool for States to communicate information on their actions to address CO<sub>2</sub> emissions from the international civil aviation. The quantification of the information contained in an action plan enables ICAO to compile global progress towards meeting the aspirational goals established at the Consolidated Statement of continuing ICAO policies and practices related to environmental protection and enables States to reflect their contributions.

1.2 A key aspect of successfully developing and implementing an action plan is the degree and nature of collaboration among different stakeholders within a State. These can include, among others, aviation and environmental authorities, airlines and airports, air navigation service providers, statistical departments and fuel providers. Collecting information from these stakeholders and consolidating this input into an action plan ensures that the development of the plan is based on a cooperative process and that the measures contained therein are accurate, comprehensive, and feasible to implement.

## **2. Implementation status of the States Action plans on CO<sub>2</sub> emissions reduction activities for International Civil Aviation**

2.1 By April 2019, 111 Member States have voluntarily submitted action plans to ICAO. These successful results demonstrate the high level of interest and engagement of ICAO Member States in this initiative, as well as the impact of ICAO's assistance and capacity-building activities. At the last Assembly in October 2016, States were invited to update their plans by June 2018 and every three years thereafter. The submission of an Action plan and its subsequent updates is necessary to ensure that the information included is valid overtime.

2.2 In the NACC Region, 13 from the 22 States have developed an Action Plan on CO<sub>2</sub> emissions reduction and submitted to ICAO. Out of the 13 States, 7 States have submitted an updated plan. Out of the 22 States, 15 have nominated a focal point for the States Action Plan related activities (see the table below).

NACC State	Action Plan Submitted	Action Plan Updated
Antigua and Barbuda		
Bahamas		
Barbados		
Belize	x	
Canada	x	x
Costa Rica	x	
Cuba	x	x
Dominica		
Dominican Republic	x	x
El Salvador	x	x
Grenada		
Guatemala	x	
Haiti		
Honduras	x	
Jamaica	x	
Mexico	x	x
Nicaragua	x	
Saint Kitts and Nevis		
Saint Lucia		
Saint Vincent and the Grenadines		
Trinidad y Tobago	x	x
United States	x	x

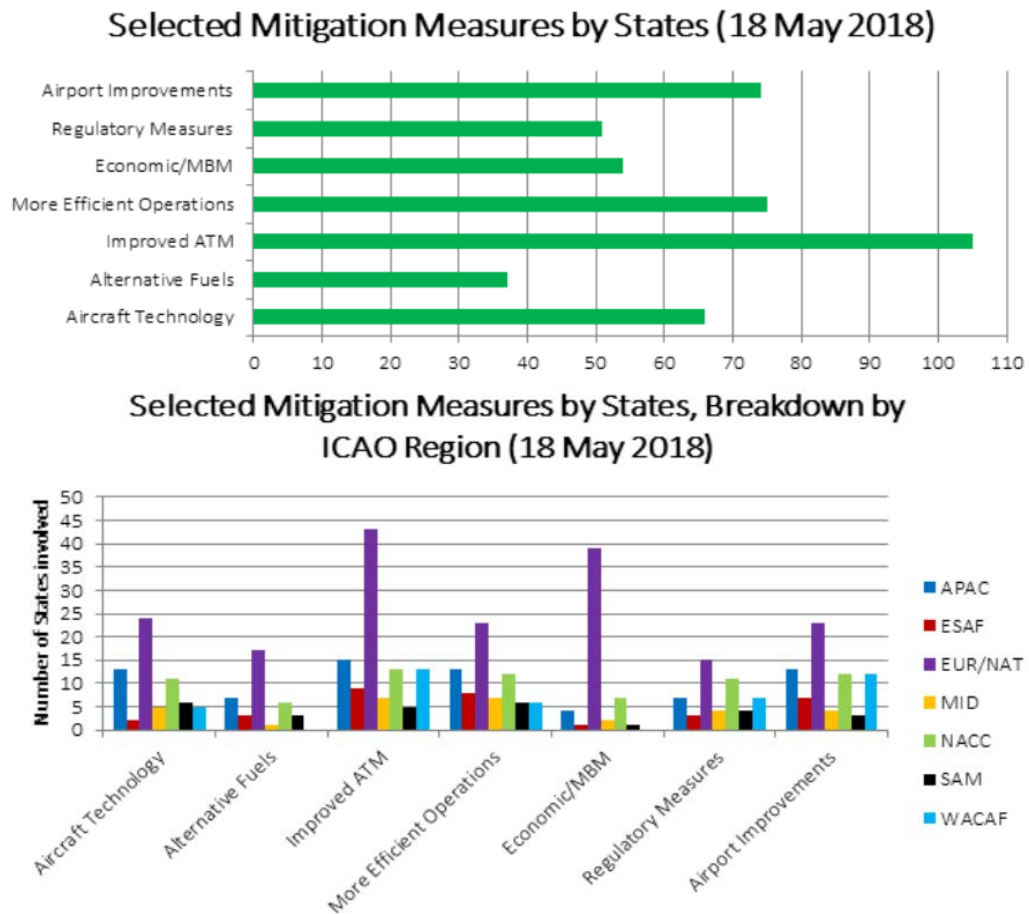
### 3. Basket of measures to limit or reduce CO2 emissions from international civil aviation

3.1 The ICAO Doc 9988 *Guidance on the Development of States' Action Plans on CO2 Emissions Reduction Activities* chapter four, provides guidance on both examples of measures to select to limit or reduce CO2 emissions from international aviation and how to quantify the effects that they will have once implemented; Doc 9988 Appendix A summarizes all measures deconstructed into categories, which are subdivided into measures and subsequently into actions. Doc. 9988 is being updated and its third edition will be released soon.

3.2 The A-39 acknowledged the progress achieved on all elements of the basket of measures available to address CO2 emissions from international aviation, including aircraft technologies, operational improvements, sustainable alternative fuels and a global market based measures scheme and any other measures, and affirmed the preference for the use of aircraft technologies, operational improvements and sustainable alternative fuels that provide the environmental benefits within the aviation sector;

3.3 The A-39 requested the Council to continue to ensure all efforts to make further progress on aircraft technologies, operational improvements and sustainable alternative fuels be taken by Member States and be reflected in their Action plans to address CO2 emissions from international aviation, and to monitor and report the progress on implementation of action plans

3.4 The ICAO Environment web site ([see the web site here](#)) presents the selected mitigation measures by States, and broken-down by ICAO Regions as of May 2018:



3.5 The ICAO Doc 10031 *Guidance on environmental assessment of proposed Air traffic management (ATM) operational changes*, is intended to assist with recognizing any environmental benefits associated with operational changes and provides guidance to support decision making for States, airport operators, air navigation service providers (ANSP) and other stakeholders when analyzing proposed ATM operational changes. The guidance provides high-level environmental assessment principles intended to facilitate the use of a consistent approach for assessing the environmental impacts of operational changes.

**4. Suggested Actions**

4.1 The Meeting is invited to:

- a) encourage those States that have not yet developed or updated their States' Action Plans with quantified data to do so as soon as possible, making emphasis on paragraph 2; and
- b) encourage States to report the implemented mitigation measures by the State's Action plan and consider the relevance of a coordinated regional approach under the umbrella of ANI/WG.

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