



**Agenda Item 5:            Air Navigation Matters**  
**5.3        Action Plans on States' CO<sub>2</sub> emissions reduction activities in aviation and their implementation**

**STATUS OF THE REGIONAL ACTION PLAN  
ON THE ACTIVITIES FOR CO<sub>2</sub> EMISSIONS REDUCTION IN AVIATION**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the current status of the joint regional action plan implementation by the CASSOS member States on the activities for CO<sub>2</sub> emissions reduction as well as the current initiatives carried out by the International Civil Aviation Organization (ICAO) related to the project to assist States in the preparation of their action plans.

**References:**

- ICAO Assembly 37<sup>th</sup> Session, ICAO Headquarters, Montreal, Canada, October 2010
- State Letter AN 13/61-12/4 dated 6 January 2012 on IFSET
- State Letter Ref. EMX0250 dated 15 March 2012 on States' Action Plans on CO<sub>2</sub> Emissions Reduction Activities
- State Letter Ref. EMX0568 dated 18 June 2012 on ICAO States' Action Plans on CO<sub>2</sub> Emissions Reduction Activities
- State Letter 12/69 dated 18 December 2012 on ICAO CO<sub>2</sub> Reporting and Analysis System (ICORAS) tool
- State Letter 12/72 dated 21 December 2012 on the ICAO Symposium on Aviation and Climate Change, "Destination Green," Montréal, Canada, 14 to 16 May 2013; and Pre-Symposium Seminar, 13 May 2013, Montréal, Canada
- Electronic Bulletin 2013/15 dated 17 April 2013 on the "Destination Green" ICAO Symposium on International Aviation and Climate Change Montréal, ICAO Headquarters, 14 to 16 May 2013 and Pre-Symposium Seminar for States' Action Plans Montréal, ICAO Headquarters, 13 May 2013
- <https://portal.icao.int/APER>
- <http://www.icao.int/environmental-protection/Pages/Tools.aspx>

***Strategic Objective***

*This working paper is related to Strategic Objective:  
C. Environmental Protection and Sustainable Development of Air Transport*

## 1. Introduction

1.1 Resolution A37-19 adopted by the ICAO Assembly 37<sup>th</sup> Session in October 2010 is based on ICAO's accomplishments of previous years and takes a step ahead to incorporate the following essential elements:

- Global goals for the international civil aviation sector to achieve a global annual average fuel efficiency improvement of 2 per cent until 2020 and an aspirational global fuel efficiency improvement rate of 2 per cent per annum from 2021 to 2050, calculated on the basis of volume of fuel used per revenue tonne-kilometre performed;
- Development of a global CO<sub>2</sub> certification standard targeted for 2013;
- Facilitation and implementation of sustainable alternative fuels for aviation;
- Development of a framework for market-based measures (MBMs), including further development of the guiding principles adopted by the Assembly and the exploration of a global scheme;
- State action plans include the information on CO<sub>2</sub> reduction activities and assistance needs
- Concrete steps to assist States to contribute with global efforts

## 2. Action Plans

2.1 The Resolution “*encourages States to submit their action plans outlining their policies and actions, and an annual report on international aviation CO<sub>2</sub> emissions to ICAO.*” The action plans must include information on the group of measures considered by States as well as information on any specific assistance needs. In addition, it also “invites those States that choose to prepare their action plan to submit their plan to ICAO as soon as possible.” States should have voluntarily submitted their action plans to ICAO in June 2012, for ICAO to compile the information in relation to the scope of aspirational goals in order to present these results to the 38<sup>th</sup> Session of the ICAO Assembly which is to be held in September 2013.

2.2 During the Twelfth Meeting of Directors of Civil Aviation of the Central Caribbean (C/CAR/DCA/12), held in Punta Cana, Dominican Republic from 10 to 13 July 2012, the Secretariat presented a proposal on the possibility to have States develop joint action plans to deal with CO<sub>2</sub> emissions for those States who share air navigation services.

2.3 The Meeting noted that CASSOS Member States had previously accepted this initiative with Jamaica and Trinidad and Tobago as coordinating States for the joint Action Plan regarding the CO<sub>2</sub> emission reduction activities. Therefore, the Meeting adopted the following conclusion:

**CONCLUSION 12/1****CASSOS MEMBER STATES SUB-REGIONAL ACTION PLAN ON CO<sub>2</sub> EMISSIONS REDUCTION ACTIVITIES**

*That:*

- a) *CASSOS member States present ICAO a joint Action Plan on CO<sub>2</sub> Emission Reduction Activities; and*
- b) *Jamaica coordinate the preparation of this sub-regional plan for presentation to ICAO by 31 December 2012.*

2.4 However, the Coordinator for the subregional action plan for CASSOS member States informed ICAO that regretfully, despite the multiple efforts carried out through the issuing of e-mails to the related States, they did not provide the necessary data to prepare and submit the subregional action plan to ICAO within the established deadline either. It should be noted that only Jamaica and Trinidad and Tobago (on behalf of PIARCO FIR) prepared their respective action plans on CO<sub>2</sub> emissions reduction and submitted to ICAO by 31 December 2012. Haiti is still pending to submit this plan.

2.5 Also, in order to provide practical assistance to States in the preparation of their action plans on the CO<sub>2</sub> emissions reduction activities, ICAO convened the “Assistance for Action – Aviation and Climate Change” Seminar at its Headquarters, in Montréal, Canada from 23 to 24 October 2012. The latest related event was the ICAO Symposium on Aviation and Climate Change, “Destination Green” which was held in Montréal, Canada, from 14 to 16 May 2013. All the information on this event is available at the following address: <http://www.icao.int/Meetings/Green/Pages/default.aspx>.

2.6 To date, the CAR Region States who have delivered their action plans to ICAO are: Canada, Jamaica, Mexico, Trinidad and Tobago and United States.

2.7 States or Air Navigation Service Providers (ANSPs) should encourage the estimation and presentation of fuel savings reports stemmed from the national and regional operational improvement through the use of the ICAO Fuel Savings Estimation Tool (IFSET), which is a user-friendly tool that was specifically designed for this purpose. ICAO has published the “ICAO Fuel Savings Estimation Tools (IFSET) Users Guide” which is available, together with other tools on the subject, at: <http://www.icao.int/environmental-protection/Pages/Tools.aspx>. Likewise, States are encouraged to use the ICAO CO<sub>2</sub> Reporting and Analysis System (ICORAS) tool, which is based on several data sources and mainly on the Reporting Form M – *Fuel and traffic consumption – international and total services, commercial airlines*. According to Article 67 of the International Civil Aviation Convention, States are required to submit Reporting Form M to ICAO on a yearly basis, starting with data from 2010. This data is considered confidential.

2.8 The Meeting is informed about the agreement reached by the Ninth Central Caribbean Working Group (C/CAR/WG/9) Meeting and the Seventh Central American Air Navigation Experts (CA/ANE/WG/7) Meeting which were held jointly in the ICAO NACC Regional Office from 5 to 9 March 2012, where it was agreed that States/ANSPs in the CAR Region should start reporting the benefits stemmed from the implementation of operational improvements. Therefore, the Meeting drafted the following conclusion, which later on was approved by the Directors through the fast track mechanism and reviewed by the C/CAR/DCA/12 Meeting:

**C/CAR/WG**

**CONCLUSION 9/6**

**IMPLEMENTATION OF THE ICAO FUEL SAVINGS ESTIMATION TOOL (IFSET) IN CENTRAL CARIBBEAN AND CENTRAL AMERICA**

*That, taking into account the Assembly Resolution A37-19, consolidated statement of the continuing ICAO policies and practices related to environmental protection – Climate change, the Central Caribbean and Central American States/Territories report to ICAO the benefits achieved with the implementation of improvements related to the fuel savings every three months from 30 June 2012.*

2.9 States are reminded that the ICAO Secretariat will continue to provide assistance and tools for States to support them in the development and delivery of action plans on the activities for CO<sub>2</sub> emissions reduction.

**3. Suggested Action**

3.1 The Meeting is invited to:

- a) request Jamaica and Trinidad and Tobago to report on the preparation status of the CASSOS member States subregional action plan and to provide a new target date to deliver the action plan to ICAO.
- b) request Haiti to provide the information required by the Coordinator to prepare and present the subregional action plan to ICAO;
- c) request Bahamas, Cuba and Dominican Republic to submit their respective individual action plans;
- d) encourage States to coordinate individually with all the stakeholders the development of their environmental action plans;
- e) promote the use of the ICAO IFSET and ICORAS tools for the estimation and presentation of fuel savings reports as part of the implementation of States' action plans; and
- f) continue to consider the environmental issue in the planning and implementation of their regional air navigation systems.