



Developing Canada's Action Plan to Reduce Greenhouse Gas Emissions from Aviation

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Purpose

- To present the process Canada used to develop its ***Action Plan to Reduce Greenhouse Gas Emissions from Aviation***
- The Action Plan was released publicly and submitted to the International Civil Aviation Organisation (ICAO) in June 2012



Building on Success

- Canada's Action Plan builds on success of world's first voluntary agreement between Transport Canada and Canadian air carriers to address GHG emissions.
- Signed in 2005 between the Air Transport Association of Canada and Transport Canada, the voluntary agreement set a goal of 1.1% annual average improvement in fuel efficiency to 2012.
- As of 2011, Canada's aviation industry made a 1.7% average annual improvement since 1990, a cumulative improvement of 30%, surpassing original goal.



Building on Success [Cont'd]

- Canada's Action Plan also builds on the collaborative efforts between Transport Canada and the Canadian Airports Council to develop a tool, the Airport Carbon and Emissions Reporting Tool (ACERT), which was used at all 26 Canadian airports develop emission inventories and to identify emission reduction opportunities.
- It also builds on efforts of NAV CANADA to identify and quantify GHG reductions in its annual CIFER (Collaborative Initiatives for Emission Reductions) reports since 1997.
- Canada's Action Plan draws upon existing guidance materials, such as ICAO's Circular 303 on Operation Opportunities to Minimize Fuel Use and Reduce Emissions.



Working Group on Aviation Emissions

- In March 2010, a joint government-industry Working Group was formed to share information and best practices, as well as to develop an Action Plan to limit or reduce greenhouse gas (GHG) emissions from the Canadian aviation sector.
- Objectives of Working Group:
 - Provide collaborative forum, with equal participation from members organizations, to develop, implement, and monitor the Action Plan.
 - Examine areas of cooperation among aviation industry stakeholders and identify new synergies for further emission reductions.



Governance of Working Group

- The group comprised all segments of Canadian aviation sector, including:
 - Transport Canada;
 - Aerospace Industries Association of Canada (AIAC);
 - Air Transport Association of Canada (ATAC);
 - Canadian Airports Council (CAC);
 - Canadian Business Aviation Association (CBAA);
 - National Airlines Council of Canada (NACC); and
 - NAV CANADA.
- Transport Canada is chair and secretariat of Working Group



Sub-Working Groups

- Sub-Working Groups were formed to work on six areas where further emission reductions could be achieved:
 1. Performance-based navigation;
 2. Surveillance;
 3. Ground support equipment;
 4. De-icing;
 5. Taxiing; and
 6. Alternative Fuels.
- Sub-Working groups are chaired by Working Group members. They were asked to develop specific measures for the Action Plan and to report regularly to the Working Group on progress.



Establishing a Target and Measures

- Between 2010 and 2012, the Working Group held ten meetings.
- Several rounds of discussions were undertaken to arrive at the agreed fuel efficiency target of a 2% annual average fuel efficiency improvement from a 2005 baseline and the agreed measures.
- Key measures were identified that could be quantified and significantly contribute to the target:
 - Fleet Renewal;
 - More Efficient Air Operations; and
 - Performance-Based Navigation.



Establishing a Target and Measures

[Cont'd]

- Industry stakeholders undertook modelling to estimate how much the key measures were expected to contribute to the target, in terms of a percentage of total efficiency improvement.
- Other measures were identified by the Working Group that would be needed to achieve ICAO's longer-term goals, but which were not immediately quantifiable.
- Partners identified for each of the measures assumed accountability for leading their implementation.



Releasing Canada's Action Plan

- On June 4, 2012, an event was held at the Canada Aviation and Space Museum in Ottawa to mark the official release of Canada's Action Plan.
- The event was attended by the Minister of State (Transport), the Minister of Environment, and senior representatives for each association that is signatory to the Action Plan.
- The event was covered by local and international media outlets.
- Following the event, the Action Plan was posted online on Transport Canada's website and submitted to ICAO



Moving Forward

- The Action Plan is intended to be a living document
- The Action Plan commits to:
 - Continued governance on implementation
 - Semi-annual Working Group meetings
 - Annual public reporting
 - Review of the Action Plan, once every three years
 - An audit of the annual reports within the next five years



Reporting Template

- A draft reporting template has been developed to assist in annual reporting
- Data and input from Working Group members will feed into annual reports

September 17, 2012

Canada's Action Plan to Reduce Greenhouse Gas Emissions from Aviation Annual Reporting Template

This template is designed to assist in the annual reporting by members of the Working Group on Aviation Emissions on the measures listed in sections 5 and 6 of *Canada's Action Plan to Reduce Greenhouse Gas Emissions from Aviation*. Please select the status that best describes the measure which you are reporting on and provide a description of the progress made thus far.

5.0 Measures

Measure: 5.1 Fleet Renewals and Upgrades		Partners: NACC, ATAC		
Commitment: Canadian airlines expect to achieve an average annual fuel efficiency improvement of 0.7% for both domestic and international flights between 2005 and 2020 through further fleet changes.				
Status:	<input type="radio"/> Complete	<input type="radio"/> On-Track	<input type="radio"/> No Action to Date	<input type="radio"/> Behind
Progress:				



Key Dates

- May 2013 – Working Group members to submit input for first report on progress made under Canada's Action Plan (2012 activity data)
- June 2013 – Draft report of 2012 annual report
- September 2013 – Final draft of 2012 annual report for approval
- December 2013 – Release of final 2012 annual report



More Information

- To access Canada's Action Plan:
<http://www.tc.gc.ca/aviation-emissions/>
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