

Transport Canada Update to the ASCENT Advisory Board

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Purpose

Update on Government of Canada's priorities and Transport Canada's activities related to aviation research.





Pan-Canadian Framework on Clean Growth and Climate Change

- Announced in December 2016, PCF is Canada's plan to:
 - Grow economy while reducing emissions and building resilience to adapt to a changing climate
 - Achieve international commitment of taking action to address climate change and lower GHG emissions
 - Support investments in clean technology RD&D, including to advance research in areas that can reduce GHG emissions and other pollutants
- The implementation of the PCF is underway in collaboration with Provinces and Territories, and engaging Canadians.



Pan-Canadian Framework on Clean Growth and Climate Change

- Carbon-pricing identified as one of the 4 pillars of the PCF.
- Two proposed approaches: carbon tax or cap-and-trade system.
- All jurisdictions will have carbon pricing by 2018.
- Pricing to be based on GHG emissions.
- Approach will be reviewed in 2022, with continued increases in stringency.
- Emissions from flights within Canada and ground operations will likely be affected by carbon pricing.



Pan-Canadian Framework on Clean Growth and Climate Change

- GHG emissions reductions and climate-change adaptation measures are the 2nd and 3rd pillars of the PCF.
- GHG emissions reductions measures in transportation include:
 - Set emissions standards and improve energy-efficiency
 - Increase zero emissions vehicles
 - Shift from higher to lower-emitting modes and investing in infrastructure
 - Using cleaner fuels, including biofuels



Pan-Canadian Framework on Clean Growth and Climate Change

- Clean technology and innovation is the 4th pillar of the PCF and includes:
 - Investments in clean technology RD&D, and developing international partnerships
 - Accelerating commercialization and growth
 - Adopting clean technology
 - Strengthening collaborations
 - Improving metrics to measure success

Sustainable Development Vision

- The Sustainable Development Federal Strategy is developed for three years, from 2016 to 2019.
- Thirteen aspirational goals to support sustainable development vision, including:
 - Effective action on climate change
 - Low-carbon government
 - Clean growth
 - Clean energy
 - Safe and healthy communities
- Goals, targets and actions support goals and contribute to international agreements and initiatives.



Transport Canada's Responsibilities

- Ensures a safe, secure, efficient and environmentally responsible Canadian transportation system
 - Assess safety, security and economic implications in proposed environmental measures
- Regulates all emissions from the aviation, marine and rail sectors – leads Canadian participation and involvement at the International Civil Aviation Organization (ICAO) and the International Maritime Organization (IMO)
- Removes barriers to enable take-up of clean technologies – e.g., modernized and harmonized codes, standards, test protocols, targeted incentives, research



The Current Approach

Canada targets related to GHG emissions:

- Reduce total GHG emissions by 30% relative to 2005 levels by 2030
- Reduce GHG emissions from federal government buildings and fleets by 40% below 2005 levels by 2030
- Monitor transition to low-carbon economy by tracking GHG emissions
- Take a leading role in international agreements and initiatives on climate change, including negotiations on GHG emissions in the maritime and aviation sectors



Other Engagements by Canada

- Renewal of contribution agreement with the FAA to support research by ASCENT until end of March 2018.
- Under Canada's Action Plan to Reduce GHG Emissions from Aviation, Canada's aviation sector working with federal government to increase fuel efficiency and decrease GHG emissions.
- Through the PCF, committed to carbon pricing for all provinces and territories by 2018 to reduce emissions, drive innovation and encourage pollution reduction by people and businesses, based on GHG emissions.