



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.





Transport Canada Activities

- Development of new umbrella agreement between Transport Canada and the FAA that defines the collaboration between the two agencies
- Replaces the Volpe-Jamieson agreement in place since 1970
- Each collaborative R&D activity like ASCENT is covered by an Annex that contains the specific details of each activity



Recent Announcements

- Creation of an independent advisory board in February 2021
 - Net-Zero Emissions by 2050
- Joint Statement by Transport Canada and the U.S. Department of Transportation in February 2021
 - ...we are committed to reinvigorate our bilateral cooperation to fight climate change and limit the environmental impacts from our transportation networks—on land, air and sea.



Recent Announcements

- 2021-2022 Federal Budget:
 - 2050 net-zero pathway by committing to buy low-carbon fuels for use in the federal domestic air and marine fleets.
- April 2021 Biden Climate Summit
 - PM Trudeau said Canada will reduce emissions by 40 to 45 per cent below 2005 levels by 2030



The Sky's the Limit Challenge

1. Green Aviation Fuels Innovation Competition

- \$2 million awarded to four applicants to put their plan into action and compete for the grand prize
 - Four finalists announced on May 31, 2019:
 - Carbon Engineering
 - Enerkem
 - Forge Hydrocarbons
 - SAF+ Consortium
 - Next step: submission of 10 liters (2.6 USG) of biojet fuel by ~~November 1, 2020~~ **August 1, 2021**
 - Finalists have recently updated information on SAF website:
https://safcommunity.org/news?category_id=8872
- ~~March 31, 2021~~ **Spring 2022**, \$5 million grand prize awarded to the team that will develop the best made-in-Canada biojet fuel



The Sky's the Limit Challenge

2. Cross-Canada Flight Competition

- \$1 million awarded to first producer to provide the fuel required to complete the first cross-Canada (3,000 km \approx 1,620 nm) flight using a minimum 10% blend of made-in-Canada biojet fuel
 - Competition began March 1, 2019
 - Competition closes: January 1, 2021
- Competition closed. No winner announced.

Other National Activities

- Harbour Air all electric seaplane:
 - December 10, 2019: first flight !
 - Pandemic delayed testing
 - Resume test flight this year with a new battery



Source: Harbour Air

Questions ?

