

BOMBARDIER



porter



Porter Airlines Operates Bombardier Q400 Aircraft in Canada's First Biofuel-Powered Revenue Flight

- **Biofuel test program led by Bombardier Aerospace, Porter Airlines, Pratt & Whitney Canada and Targeted Growth successfully concluded**
- **Program funded by the key partners and by Business-Led Networks of Centres of Excellence (BL-NCE) Program through GARDN**

Toronto, April 17, 2012 - Porter Airlines today successfully conducted the first biofuel-powered revenue flight in Canada. In the successful conclusion to a test program that was launched in 2010, the airline flew one of its Bombardier Q400 turboprops from its base at Billy Bishop Toronto City Airport to Ottawa using a 50/50 blend of biofuel and Jet A1 fuel in one of its engines.

The fuel was certified to the new American Society for Testing and Materials (ASTM) D7566/D1655 standard and the biofuel used was derived from the oilseed crops, *Camelina sativa** (49 per cent) and *Brassica carinata** (one per cent). The aircraft's other engine was powered by Jet A1 fuel. The flight included passengers making their way to Ottawa for business and pleasure, representatives from the biofuel test program's partnering organizations and media.

This is the final step in a two-year project whose key members are Targeted Growth, Bombardier Aerospace, Pratt and Whitney Canada, the manufacturer of the PW150A engines that power the Q400 aircraft, and Porter Airlines. Funding for the biofuel test program was provided by the key partners, as well as by Business-Led Networks of Centres of Excellence (BL-NCE) through the Green Aviation Research & Development Network (GARDN).

Additional support to the program was provided by Agrisoma Biosciences Inc., which grew the carinata and produced the carinata bio-oil; Sustainable Oils, which crushed the camelina to make the camelina bio-oil; Honeywell UOP, which converted the bio-oils into the bio-derived jet fuel to meet the D7566 standard; and SkyNRG who were responsible for logistics and blending meeting the D1655 specification.

“In a fitting tribute to Earth Day 2012, which is now less than a week away, we are delighted that one of our Bombardier Q400 turboprops has become the first aircraft to successfully conduct a biofuel-powered revenue flight in Canada,” said Robert Deluce, President and Chief Executive Officer, Porter Airlines. “The use of biofuels promises to significantly reduce the level of emissions produced by commercial aircraft worldwide, and Porter is honoured to have contributed to this test program in Canada.”

“The success of this biofuel test program, which utilized a Bombardier Q400 aircraft, speaks volumes about the ability of the aviation and other communities to work together towards producing a more sustainable aviation industry,” said H el ene V. Gagnon, Vice President, Public Affairs, Communications and Corporate Social Responsibility, Bombardier Aerospace. “But that’s not the only milestone achieved today. This is the first time that a revenue flight in Canada was powered by biofuel, so we’ve achieved a first for Canada. ”

“When this biofuel project was submitted in October 2010, the Private Sector Advisory Board, a strategic body comprised of respected Canadian industry leaders, approved it with complete confidence and praised it very high value added, world-class experts and very good focus,” said Sylvain Cofsky, Executive Director of GARDN. “Eighteen months later, today’s flight proves they were right and I am extremely proud of GARDN’s contribution to this very promising success in the field of aviation.”

“We are firmly committed to ensuring that our products are designed, produced and operated while minimizing environmental impacts throughout their life cycle, outperforming the most stringent ICAO standards,” said Daniel Breitman, Vice President, Engine Development Programs, Pratt & Whitney Canada. “We have implemented new technologies to significantly reduce fuel consumption, environmental emissions and engine noise in our latest generation of engines and we are developing cutting-edge green technologies for the future, to help the aerospace industry reach its commitment of reducing its overall footprint.”

“Targeted Growth was very pleased to be involved in this project,” said Robert Woods, president, Targeted Growth. “Partnerships such as this one help demonstrate market confidence that spurs the critical research and development required to advance feedstock productivity.”

On February 9, 2012, in preparation for Porter’s revenue flight, Bombardier flew a Q400 turboprop test aircraft on the ASTM D7566/D1655 bio-derived jet fuel. This was the first such biofuel-powered test flight in Canada.

About Q400 aircraft

The Q400 turboprop airliner, which is built at Bombardier's Toronto, Ontario facility, is the advanced successor to Bombardier's *Dash 8/Q-Series* family of aircraft. Optimized for short-haul operations, the "comfortably greener," 70- to 80-seat Q400 aircraft is a large, fast, quiet and fuel-efficient turboprop. It provides an ideal balance of passenger comfort and operating economics with a reduced environmental footprint.

Setting new environmental standards, the Q400 aircraft uses 30 to 40 per cent less fuel and produces 30 to 40 per cent fewer emissions on routes where it has replaced similar-capacity, older jets. Overall, the Q400 aircraft is 15 decibels quieter than ICAO Chapter 4 noise standards; raising the bar for the entire industry.

More than 380 Q400 aircraft are in service with approximately 40 operators in 30 countries, on six continents. These aircraft have transported more than 177 million passengers.

About Bombardier

A world-leading manufacturer of innovative transportation solutions, from commercial aircraft and business jets to rail transportation equipment, systems and services, Bombardier Inc. is a global corporation headquartered in Canada. Its revenues for the fiscal year ended December 31, 2011, were \$18.3 billion, and its shares are traded on the Toronto Stock Exchange (BBD). Bombardier is listed as an index component to the Dow Jones Sustainability World and North America indexes. News and information are available at www.bombardier.com or follow us on Twitter [@Bombardier](https://twitter.com/Bombardier).

About GARDN

GARDN – the Green Aviation Research and Development Network is a business-led Network of Centres of Excellence. Its mission is to promote aerospace technologies aimed at the protection of the environment. The seven themes of research targeted by GARDN are: noise and source emissions reduction, materials and manufacturing processes, airport and aircraft operations, alternative fuels and product lifecycle management. GARDN's activities are in support of the competitive excellence of Canadian aerospace products and services, the economic success of the member companies as well as the development and training of highly qualified personnel.

www.gardn.org

About Porter Airlines

Founded in 2006, Porter Airlines has revolutionized short-haul flying with a warm and effortless approach to hospitality and restoring glamour and refinement to air travel. An Official 4 Star Airline® in the World Airline Star Rating® by Skytrax, and rated second in the world in Condé Nast Traveler's Readers Choice Awards Top Small Airlines category, Porter is committed to providing a premium travel experience. Complimentary amenities include luxurious airport lounges, Starbucks coffee, premium snacks, and wine or beer onboard.

The airline currently offers flights to Toronto, Ottawa, Montréal, Québec City, Moncton, Halifax, St. John's, Thunder Bay, Sault Ste. Marie, Sudbury, Timmins, Windsor, New York (Newark), Chicago (Midway), Boston (Logan), Washington, D.C., and has seasonal flights to Mt. Tremblant, Que., Myrtle Beach, S.C., and Burlington, Vt. Visit www.flyporter.com or call (888) 619-8622 for more information.

About Pratt & Whitney Canada

Founded in 1928, and a global leader in aerospace, Pratt & Whitney Canada (P&WC) is shaping the future of business aviation with dependable, high-technology engines. Every second, a P&WC-powered aircraft takes off or lands somewhere in the world. P&WC's engines, with close to 600 million hours in the air, are the industry benchmark for innovative design, dispatch reliability, operating economics and easy maintenance. P&WC is firmly committed to ensuring that its products are designed, produced and operated while minimizing environmental impacts throughout their life cycle.

There are currently more than 49,000 P&WC engines in service on more than 28,000 aircraft operated by some 10,200 operators in 200 countries. Based in Longueuil, Québec (Canada), P&WC is a United Technologies Corp. company (NYSE:UTX). UTC is a diversified company providing high-technology products and services to the global aerospace and building industries. News and information are available at www.pwc.ca.

About Targeted Growth

Targeted Growth was founded over a decade ago with a goal of developing technologies that would increase the productivity of existing farmland and improving novel crops for use on marginal land. Today, Targeted Growth is a global leader in bioscience, having developed technologies that both increase seed size and yield in commercial food crops and biofuel feedstocks. The company has strategic partnerships with leading researchers and agribusinesses around the world. More information is available at www.targetedgrowth.com.

Notes to editors

Images of Porter Airlines Q400 aircraft are available in the press releases section at: www.bombardier.com.

Photos and a video from today's event will be available at www.flickr.com/bombardieraerospace and youtube.com/bombardiervideos.

Follow [@Bombardier_Aero](https://twitter.com/Bombardier_Aero) on Twitter to receive the latest news and updates from Bombardier Aerospace.

**Camelina sativa and Brassica carinata are members of the family of flowering plants known as the Brassicaceae. The Brassicaceae also include well-known plants such as broccoli, cabbage, cauliflower and turnips.*

Bombardier, Dash 8, NextGen, Q400 and Q-Series are trademarks of Bombardier Inc. or its subsidiaries.

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