



Commercial Aviation Alternative Fuels Initiative

Supporting solutions for secure and sustainable aviation

"If we are to be a leader in the 21st century global economy, then we must lead the world in clean energy technology. Through American ingenuity and determination, we can and will succeed."

President Barack Obama
May 5, 2009

"(The) U.S. aviation industry is eager for an entirely new fuel dynamic and will be an enthusiastic purchaser."

Air Transport Association
letter to President-Elect Obama
January 16, 2009

CAAIFI Sponsors

Airports Council International-North America (ACI-NA)

Aerospace Industries Association (AIA)

Air Transport Association (ATA)

Federal Aviation Administration (FAA)

Background

The Commercial Aviation Alternative Fuels Initiative (CAAIFI) seeks to enhance energy security and environmental sustainability for aviation through alternative jet fuels. CAAIFI is a coalition of U.S. commercial aviation stakeholders that acts as a focal point for engaging with the emerging alternative fuels industry. It enables its diverse stakeholders to build relationships, share and collect data, identify resources, and direct research, development and deployment of alternative fuels.

CAAIFI sponsors include three trade associations: Airports Council International-North America (ACI-NA) representing commercial airports, the Aerospace Industries Association (AIA) representing U.S. manufacturers, the Air Transport Association (ATA), representing U.S. airlines; and the Federal Aviation Administration's (FAA) Office of Environment and Energy. CAAIFI stakeholders are drawn from all elements of the international commercial aviation industry, fuel suppliers, universities and multiple U.S. government agencies.

Goal

CAAIFI's goal is to promote the development of alternative fuel options that offer equivalent levels of safety and compare favorably with petroleum-based jet fuel on cost and environmental bases, with the specific goal of enhancing security of energy supply.

Aviation is well positioned to pursue alternative fuels. The industry is international in scope, highly networked within its supply chain and has a unique capacity to function in an aligned and coordinated manner.

CAAIFI stakeholders are working on teams in four areas:

- 1) Fuel Certification and Qualification;
- 2) Research & Development;
- 3) Environment; and
- 4) Business and Economics.

Stakeholders meet to update alternative fuel developments in these areas, identify gaps and hurdles, and decide on next steps required for the earliest possible development and deployment of jet fuel alternatives.

Accomplishments in 2008 & 2009

- Approval by ASTM Intl. for a broad range of synthetic paraffinic kerosene jet fuels (ASTM D7566).
- Convened 30 energy suppliers and 20 jet fuel users in a workshop at the Department of Commerce in Sept. 2008.
- Engaged aviation fuel users, government investors (e.g. USDA, DOE) and private investors in common dialogue.
- Enabled new Airport Cooperative Research Program (ACRP) project to evaluate alternative fuel production facility siting requirements on or near airports.
- Focused international and interagency cooperation and alignment among U.S. government agencies, other States, and with the United Nation's International Civil Aviation Organization.
- Created unified R&D roadmaps, biofuel feedstock roadmaps and a "Fuel Readiness Level" scale to inform investment decisions by the public and private sectors.

CAAIFI Leadership:

Richard L. Altman (CAAIFI Executive Director)
Nate Brown, FAA (CAAIFI Deputy Executive Director)
Kristin Lewis, CSC/Volpe (CAAIFI Deputy Executive Director)
Dave Daggett & Marty Bradley, Boeing (R&D Leads)
Lourdes Maurice, FAA (Environmental Lead)
Mark Rumizen, FAA (Certification and Qualification Lead)
Michael Baer, US Airways (Business & Economics Lead)

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