



Commercial Aviation Alternative Fuels Initiative®

Supporting solutions for secure and sustainable aviation

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"I'm directing [the U.S. government] to work with the private sector to create advanced biofuels that can power not just fighter jets, but also trucks and commercial airliners."

President Barack Obama
(March 30, 2011)

"A new approach [should utilize] pre-established market outlets [and] customer purchase commitments...with a concerted effort directed to our military and airline industry."

Growing America's Fuel,
President's Biofuels Interagency
Working Group (Feb. 3, 2010)

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

ATA letter to President-
Elect Obama (Jan. 16, 2009)

The Commercial Aviation Alternative Fuels Initiative® (CAAFI) seeks to enhance energy security and environmental sustainability for aviation through alternative jet fuels. As a coalition of U.S. commercial aviation interests, CAAFI is 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.

CAAFI is sponsored by the Federal Aviation Administration (FAA) and three trade associations: the Aerospace Industries Association (AIA), the Air Transport Association of America (ATA) and the Airports Council International-North America (ACI-NA). CAAFI stakeholders include all elements of the international commercial-aviation industry, fuel suppliers, universities and U.S. government agencies.

CAAFI Goals and Objectives

CAAFI aims to promote the development and deployment of alternative fuels 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 the security of North American energy supply.

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

The four CAAFI teams – Fuel Certification and Qualification, Environment, Business and Economics, and Research and Development – meet regularly to share progress, identify gaps and hurdles, determine next steps for the earliest possible development and deployment of jet fuel alternatives, and expand global engagement.

Accomplishments

- Approval by ASTM International for synthesized hydrocarbon jet fuels from FT and HEFA processes
- Sugar and cellulose jet fuels testing underway
- Fuel Readiness Level endorsed as a best practice by the International Civil Aviation Organization
- Completion of aviation-fuel-specific greenhouse gas lifecycle analyses (LCAs) for multiple fuels
- Unified R&D roadmaps to inform investment decisions by the public and private sectors
- Initial pre-purchase agreements announced by 15 airlines with two alternative-fuel suppliers
- Formation of strategic alliance between airlines (via ATA) and the Defense Logistics Agency (DLA), creating "single market" for alternative jet fuel
- Over 50 energy suppliers engaged in development and deployment discussions
- Aviation a priority for "concerted effort" for biofuel deployment by U.S. government
- "Farm to Fly" resolution between ATA, Boeing and USDA to accelerate commercial availability of sustainable aviation biofuels in the United States
- Won 2010 *Air Transport World* Joseph S. Murphy Industry Service Award

CAAFI Team Leads

Mark Rumizen (FAA) –
Fuel Certification/Qualification

Lourdes Maurice (FAA) & Nancy
Young (ATA) – Environment

John Rau (American Airlines) –
Business and Economics

Michael Lakeman (Boeing),
Mike Epstein (GE) & Stephen
Kramer (Pratt & Whitney) –
Research and Development



CAAFI Administration

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CAAFI Sponsors

Aerospace Industries Assoc. (AIA)

Air Transport Association (ATA)

Airports Council International-
North America (ACI-NA)

Federal Aviation Administration

