



Commercial Aviation Alternative Fuels Initiative[®]

Fueling solutions for secure and sustainable aviation

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“By continuing to work together to produce American made ‘drop-in’ aviation fuels from renewable feedstocks, we will create jobs and economic opportunity in rural America, lessen America’s reliance on foreign oil and develop a thriving biofuels industry that will benefit commercial and military enterprises.”

Secretary of Agriculture Tom Vilsack
(April 15, 2013)

“We’ll need scientists to design new fuels, and we’ll need farmers to grow new fuels. We’ll need engineers to devise new technologies, and we’ll need businesses to make and sell those technologies.”

President Barack Obama, announcing
Climate Action Plan (June 25, 2013)

“Aircraft need the high-energy density that only chemical fuels can provide. So if you want low-carbon flying, drop-in biofuels are the only game in town.”

The Economist
(October 28, 2010)

CAAFI Team Leads

Mark Rumizen (FAA) —
Fuel Certification/Qualification

Jim Hileman (FAA) & Nancy Young (A4A)
— Environment

Bruno Miller (Metron Inc.) & John
Heimlich (A4A) — Business

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



The Commercial Aviation Alternative Fuels Initiative[®] (CAAFI) seeks to enhance energy security and environmental sustainability for aviation through the deployment of commercially viable 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 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.

CAAFI is sponsored by the Federal Aviation Administration (FAA) and three trade associations: the Aerospace Industries Association (AIA), Airlines for America (A4A) and 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 Approach

Aviation is well positioned to employ 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 Research and Development – meet regularly to share progress, identify gaps and hurdles, determine next steps to facilitate earliest possible development and deployment of jet fuel alternatives, and to expand global engagement.



Accomplishments

- Collaborated with FAA and ASTM to establish the drop-in jet fuel concept, followed by FT and HEFA jet fuel approval
- Released *ASTM D4054 Users’ Guide*
- Achieved *Fuel Readiness Level* endorsement as a best practice by the International Civil Aviation Organization
- Created *Sustainability Overview* and *Environmental Progression* to complement CAAFI/USDA *Feedstock Readiness Level*
- Published *R&D Critical Challenges Position* & white papers
- Issued *Guidance for Selling Alternative Fuels to Airlines* with A4A
- Completed aviation-fuel-specific greenhouse gas life cycle analyses (LCAs) for multiple fuels
- Contributed to National Alternative Jet Fuel Strategy (NAJFS)
- Formed strategic alliance between airlines (via A4A) and the Defense Logistics Agency, creating “single market” for alt. jet fuel
- Co-organized pioneering events—Sustainable Alternative Fuels Cost Workshop with Dept. of Energy Biomass Program, ABLCNext Aviation Afternoon with Biofuels Digest
- Facilitated “Farm to Fly 2.0” agreement between USDA and CAAFI sponsors accelerating commercialization of sustainable aviation biofuels
- Facilitated airline/fuel producer offtake agreements via A4A
- Expanded cooperation with international counterparts (e.g. Brazil, Spain, EU, ASEAN), including the development of joint work plans (e.g. Australia, Germany)
- 2013, 2012, 2011 & 2010 Top 100 People in Bioeconomy, 2011 Washington DC Chapter of Advancing Women in Transportation Innovative Solutions Award, 2011 Washington Airports Task Force Williams Trophy, 2010 Presidential Early Career Award for Scientists and Engineers, 2010 Air Transport World Award

CAAFI Administration

Steven Csonka
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Research & Technical Advisor

CAAFI Sponsors

Aerospace Industries Assoc. (AIA)

Airlines for America[®] (A4A)

Airports Council International
- North America (ACI-NA)

Federal Aviation Administration

