



# Commercial Aviation Alternative Fuels Initiative

## Supporting solutions for secure and sustainable aviation

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“A new approach [should utilize] pre-established market outlets [and] customer purchase commitments to stimulate production of feedstocks and biofuels 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)

### CAAIFI Team Leads

Mark Rumizen (FAA) –  
Fuel Certification/Qualification

Lourdes Maurice (FAA) –  
Environment

John Rau (American Airlines) –  
Business and Economics

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

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

CAAIFI 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). CAAIFI stakeholders include all elements of the international commercial-aviation industry, fuel suppliers, universities and U.S. government agencies.

### CAAIFI Goals and Objectives

**CAAIFI 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 CAAIFI 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.

### 2010/2009 Accomplishments

- Approval by ASTM International for synthesized hydrocarbon jet fuels (D7566 specification)
- Initial pre-purchase agreements announced by 15 airlines with two alternative-fuel suppliers
- 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
- 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
- Signing of “Farm to Fly” resolution between ATA, Boeing and USDA to accelerate commercial availability of sustainable aviation biofuels in the United States, highlighting regional initiatives
- Won 2010 *Air Transport World* Joseph S. Murphy Industry Service Award



### CAAIFI Administration

Richard L. Altman,  
Executive Director

Nathan L. Brown (FAA),  
Deputy Exec. Director

Kristin C. Lewis (RITA/Volpe),  
Deputy Exec. Director

### CAAIFI Sponsors

Aerospace Industries Assoc. (AIA)

Air Transport Association (ATA)

Airports Council International-  
North America (ACI-NA)

Federal Aviation Administration

