



Overview of FAA Alternative Jet Fuel Efforts

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Aviation Environmental Challenges



- Aviation impacts community noise, air quality, water quality, energy usage, and climate change
- Environmental impacts from aviation emissions could pose a critical constraint on capacity growth
- Alternative jet fuels could reduce the environmental impact of aviation:
 - Carbon neutral growth by 2020 compared to 2005
 - ➤ 1 billion gallons of renewable jet fuel in use by aviation by 2018





Alternative Fuels Principles – FAA view

- Alternative Jet Fuels must be "drop-in", have equivalent safety and better environmental performance than petroleum Jet fuel
- Government role to address key barriers
- Enable all possible fuels that meet criteria
- Work through Public-Private Partnerships
- Address the whole supply chain
- Leverage expertise and programs of other States
- Aviation should be a lead user of alternative fuels



Current FAA Alternative Jet Fuel Activities

Testing

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- Material compatibility
- Certification / Qualification
- Emissions measurements
- Analysis
 - Environmental sustainability
 - Techno-economic analysis
 - Future scenarios
- Coordination
 - Interagency
 - Public-Private
 - State & Regional
 - International





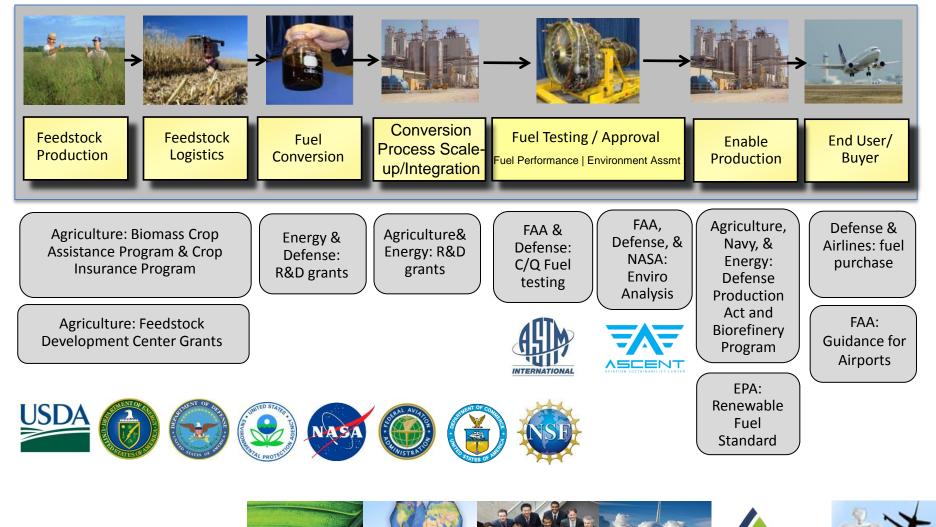


CAAFI





Coordinating Agency Efforts across Supply Chain Facilitating Deployment and Investment





- Public-Private coalition for commercial aviation to engage the emerging alternative fuels industry
- Coordinate development of alt jet fuels:
 - Equivalent safety/performance (drop-in)
 - Comparable cost
 - Environmental improvement
 - Security of Energy supply

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- Four teams for key issues:
 - Environment Team
 - Certification-Qualification Team
 - R&D Team
 - Business Team
- State and Regional Support
- International Cooperation









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COMMERCIAL AVIATION ALTERNATIVE FUELS INITIATIVE

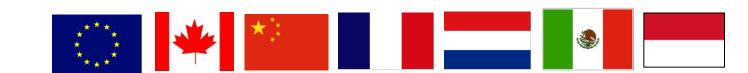


International Engagement

- Bilateral Cooperation Agreements
- Coordination with counterparts, and R&D organizations
- U.N. International Civil Aviation Organization











Summary

- Advancing use of alternative jet fuels is key for meeting U.S. environmental goals
- Testing efforts accelerate alt fuel technology development
- Analysis efforts improve environmental impacts quantification and decision-making
- Coordination among government agencies and across the supply chain is key to deployment
- Partnership between government & industry vital to success
- Global engagement will support sector goals





Thank You

