CAAFI 2014 General Meeting & Expo Opening Remarks

Steve Csonka, Executive Director, CAAFI Michael Huerta Administrator, FAA Sharon Pinkerton Senior Vice President, Legislative and Regulatory Policy, A4A Michael L. Knotek Deputy Under Secretary, Office of the U/S for Science and Energy, DOE

Produced by

Opening Remarks

Commercial Aviation Alternative Fuels Initiative

Biennial General Meeting, 2014

Takeoff Toward Commercialization

Washington Marriott, Washington, DC



28Jan'14

Housekeeping

- * Team:
 - * Marriott
 - * CAAFI
 - * Kallman Worldwide

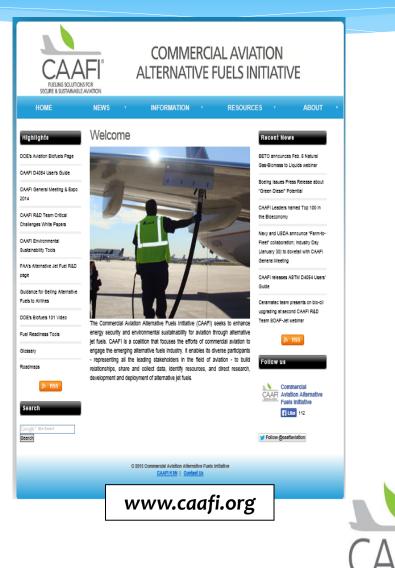




Housekeeping

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Logistics

* Event App

http://eventmobi.com/caafi/

- * Agenda
- * Contacts
- * Bios

* Polling

CAAFI AGM: Theme - Takeoff toward Commercialization			
Times approx.	Tues, 28Jan		Wed, 29Jan
7:00 - 08:10	Registration, Breakfast, Networking		
8:10 - 09:00	Opening Remarks VIP Address(es)		CAAFI Work Teams,
9:00 - 10:30	Government Partners' Activities Update	8:15 - 09:30	Plenary Summary Session
	10:30-11:00 Break		9:30-10:00 Break
11:00 - 12:25	Finance Panel	10:00 - 11:00	Public-Private Partnership Efforts
		11:00 - 12:25	Local Initiatives
12:30 - 1:30	Lunch & Keynote #1 Brad Tilden	12:30 - 1:30	Lunch & Keynote #2 USDA Sec. Vilsack
1:30 - 2:00	Biggest Challenges	1:30 - 2:30	Airline & Partners Panel 1
	West Teach		2:30-3:00 Break
2:00 - 3:10	Work Team's Breakout I	3:00 - 4:00	Airline & Partners Panel 2
	3:10 - 3:30 Break		
3:30 - 5:30	Work Team's Breakout II	4:00 - 5:30	International Initiatives
5:30 - 6:45	Cocktails	5:30	Closing Remarks
7:00p -	No Host Dinner Teddy & The Bully Bar State of the Union		

Welcome

*

Who we are – CAAFI members & invited guests *

- From across the supply chain *
- From around the world * Fuel Many first-time attendees producers * Airlines, Why we're here Military, Airport orgs. Celebrate * Contemplate * AEROSPACE INDUSTRIES U.S. States / Collaborate * State Univ's CAAFI U.S. Instigate * Government Invigorate Offices * NORTH AMERICA **Airlines for America** AIRPORTS COUNCIL Aircraft, INTERNATIONAL We Connect the World **Engine, Subsystem** OEM's 15 Countries / **5** Continents 28 January 2014 7

CAAFI - Public/Private Partnership A reflection of the 22B+ usg US jet fuel "market pull"

An Aviation Industry Coalition Established to Facilitate and Promote the Introduction of Alternative Aviation Fuel

Goal is development of non-petroleum jet fuel production with:

- Equivalent safety & performance (drop-in) *
- **Comparable cost** *
- **Environmental improvement** *
- Security of energy supply for aviation *

Synthetic kerosene, primarily from renewable sources Enables its diverse stakeholders to build relationships, share and collect data, identify resources, and direct research, development and deployment of alternative jet fuels

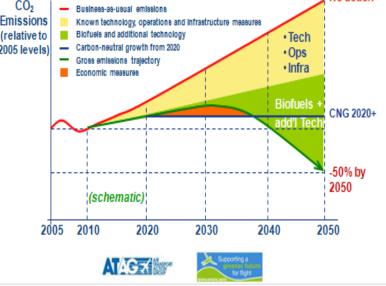


Sustainable Alternative Jet Fuel (SAJF) Why we care!

Aviation commitments

- * Improving sustainability Industry alignment on need, as SAJF can bring:
- * Carbon relief
- * Supply surety, Price stability
- * Energy security
- * Lower LAQ emissions
- * Improved energy mass density
- * Minimal infrastructure impact
- * Economic opportunity





No near-term viable kerosene alternatives, and ... SAJF works! Challenges, but Lots of Options!



Status Summary:

- SAJF is key for meeting industry's commitments
- We know how to make it broad range of inputs & processes
- Modest amounts of SAJF coming online
- Working challenges: price, supply-chain, investment
- The industry plans to continue their efforts
- Potential for acceleration a function of engagement



Opening Remarks

- * Michael Huerta
 - **FAA Administrator**
- * Sharon Pinkerton

A4A SVP Legislative and Regulatory Policy

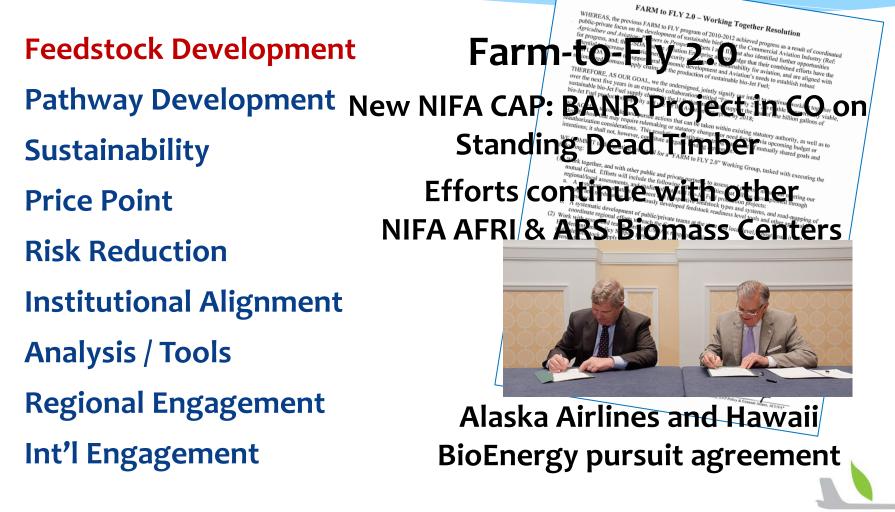
* Dr. Michael Knotek

Deputy U/S, Office of the U/S for Science and Energy



Where we're working CAAFI Facilitation – broad and deep

Certification & Research & Feedstock Development **Development** Qualification **Pathway Development** Tech. Academia Industry **Sustainability** States FAA **Price Point** Airlines **Commerce DOE** Producers NASA **Risk Reduction** Investors DOD EPA **Institutional Alignment** USDA You **Analysis / Tools** Farmers **Regional Engagement** Environmental **Business** Int'l Engagement



Feedstock Development

- Pathway Development
- Sustainability
- **Price Point**
- **Risk Reduction**
- **Institutional Alignment**
- Analysis / Tools
- **Regional Engagement**
- Int'l Engagement





Pathway Development Sustainability Price Point Risk Reduction Institutional Alignment Analysis / Tools Regional Engagement Int'l Engagement

Feedstock Development CAAFI complements FRL Tools: **Environmental Sustainability O**/view & Environmental **Progression Tool** NASA initiates in flight emissions testing program CAAFI pursuing GHG methodology harmonization **EPA Qualifies Alternative Jet Fuel** Pathways under the RFS Program

Feedstock Development **Pathway Development Sustainability Price Point Risk Reduction Institutional Alignment Analysis / Tools Regional Engagement** Int'l Engagement

UAL/AltAir announce **Price Competitive DPA DOE** announces intent to focus on Drop-Ins & C.o.P. UAL issues another RFP **KLM Executes Transatlantic Flight Demos SkyNRG** continues

making progress



- **Feedstock Development**
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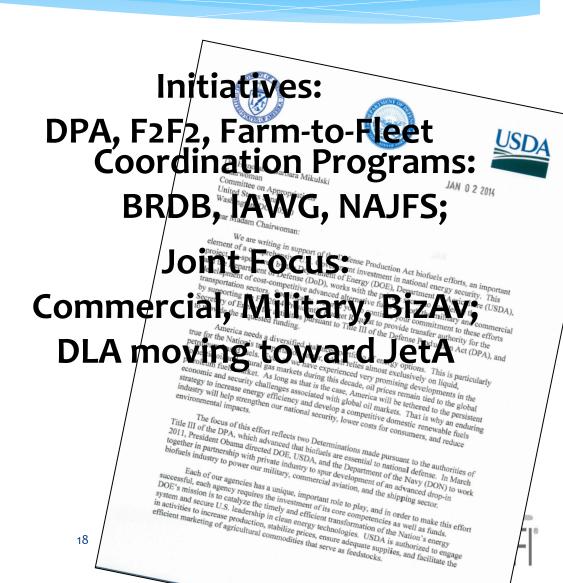
USDA/DOE/DOE DPA Phase 1 Awards



DOE Innovative Pilot Awards: 4 Entities



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CAAFI D4054 Users Guide

CAAFI Guidelines on Airline Engagement

Stand-Up of new FAA COE Several entities looking at siting and transportation optimization tools



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Regional Assessments: MASBI Concluded, ABWG Continues in NW New evaluation efforts in CT and VT F2F2 to target Local Initiatives in every state



Feedstock Development **Pathway Development Sustainability Price Point Risk Reduction Institutional Alignment** Analysis / Tools **Regional Engagement** Int'l Engagement

New bilateral with Spain joins existing efforts in Brazil, Australia, & Germany

Homegrown activities expanding, CAAFI working Global Exchange concept

Additional IATA Focal, CAEP WG

Airframers continue supporting airline goals (e.g. SAFUG)

ICAO acknowledges need for Global Approach with Alt Fuels in Basket of Measures

That is real progress!

Now, let's hear more from our Government Partners

