



ALTERNATIVE AVIATION FUEL WORKSHOP
 U.S. Department of Energy,
 Bioenergy Technologies Office
 September 14--15, 2016 • Macon, Georgia

Wednesday September 14, 2016	
Time	Agenda Item ☐ = Auditorium ☐ = Breakout Rooms
7:30 AM - 8:00 AM	Registration and Coffee (<i>Conference Center</i>)
8:00 AM – 8:20 AM	Welcome and Opening Remarks, Bioenergy Technologies Office (BETO) <ul style="list-style-type: none"> ■ Jonathan Male, Director: BETO Overview ■ Zia Haq: Importance of Aviation Biofuels at U.S. Department of Energy (DOE)
8:20 AM – 8:45 AM	Sustainable Jet Fuel Development: Demand, Feedstocks, Pathways, Efforts, and Needs <ul style="list-style-type: none"> ■ Steve Csonka , Executive Director, Commercial Aviation Alternative Fuels Initiative (CAAFI) <p><i>A summary of demand, early off take agreements, feedstocks, pathways under consideration for approval/use; issues for sustainability, economics, supply/resource availability.</i></p>
8:45 AM - 9:45 AM	Overview of Alternative Jet Fuel (AJF) Research, Development and Deployment (RD&D) Efforts: Key Technical and Economic Challenges Identified for Different Processes <p><i>This session will feature a presentation on the role DOE can play in aviation research, development, and demonstration as well as the production of biofuels and key co-products. Also, how to scale the production from bench to pilot and demo. The session will provide a survey of the RD&D work that has been done on aviation biofuels and related processes.</i></p> <p><i>It will highlight some of the key takeaways and commonalities from techno-economic analysis (TEA) work - e.g., key areas for TEA methodological improvement, such as ways of predicting maturation rates and benefits of maturity and key areas for actual competitiveness improvement.</i></p>
9:45 AM – 10:00 AM	Networking Break
10:00 AM – 11:00 AM	Greenhouse Gas (GHG) Life-Cycle Assessment (LCA) Results for AJF: Key Contributors to GHG Emissions and Emissions Uncertainty <p><i>This session will focus on sustainable aviation growth (e.g. carbon neutral growth goals), on life cycle GHG benefit of alt fuels, overview of current alternative jet fuel GHG LCA methodologies, outcomes of analyses and remaining challenges.</i></p>
11:00 AM – 12:00 PM	AJF Commercialization: Feedstock Systems Supply, Suitability, and Logistics

	<i>This session will provide an overview of recent estimates of resource availability and potential conversion to jet fuel; provide a methodological analysis of things we still don't know/don't know how to do with regard to estimating future resource availability, discussing why there is a range of estimates of resource availability.</i>
12:00 PM – 12:15 PM	Group Announcement
12:15 PM – 1:00 PM	Lunch
1:00 PM – 4:30 PM	Breakout Session 1A: <i>Enhancing the Economic and Technical Competitiveness of Aviation Biofuels from Lignocellulosic Biomass</i> <i>The dialogue will ponder on challenges to developing a more comprehensive and comparable set of TEA for a full family of AJF production concepts.</i>
1:00 PM – 4:30 PM	Breakout Session 1B: <i>Fuels Conversion and Scale-Up</i> <i>The discussion in this session will focus on challenges hindering the scale-up, commercialization, emerging pathways and on what role DOE can play in the aviation RD&D and how it can assist with the production of biofuels and key co-products, how to scale the production from bench to pilot and demo.</i>
1:00 PM – 4:30 PM	Breakout Session II: <i>Environmental and Sustainability Considerations and Opportunities to Improve the Life-Cycle Benefits of Aviation Biofuels</i> <i>The session will focus on challenges to developing a more comprehensive and comparable set of GHG LCA for a full family of AJF production concepts.</i>
1:00 PM – 4:30 PM	Breakout Session III: <i>Ensuring Robust Feedstock and Product Supply Chains to Support Aviation Biofuels</i> <i>The session will offer a discussion on challenges to developing a more comprehensive and comparable set of resource assessments for a full family of AJF Production Concepts.</i>
4:30 PM – 5:00 PM	Day 1 Breakout Session Reports
5:00 PM	Adjourn Day 1

Thursday September 15, 2016

Time	Agenda Item	 Auditorium	 = Breakout Rooms
7:15 AM – 8:15 AM	Networking and Coffee		
8:15 AM – 8:30 AM	Welcome Back Remarks		
8:30 AM – 10:30 AM	Breakout Session I -III: Advancement Activity Action Plans <i>(same groups)</i>		
10:30 AM – 11:30 AM	Breakout Session Day 2 Reports, Action Plans, and Q&A		
11:30 AM – 11:45 AM	Closing Comments and Next Steps		
11:45 AM	Lunch and Site Visit		

Draft Agenda

11:45 AM – 5:00 PM	Optional Site Visit: LanzaTech
	Adjourn Workshop