



DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT SUPPORT LOGISTICS AGENCY



Biomass 2011

Opening Plenary Session Broadening the Bioenergy Horizon

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Established Military Service Alt Energy Goals

Air Force

- *AF Energy Plan 2010* – “Increase Supply” Goals
 - By 2016, be prepared to acquire 50 percent of domestic aviation fuel via alternative blends greener than petroleum
 - Increase non-petroleum-based fuel use by 10 percent per annum in motor vehicle fleet

Navy

- *A Navy Energy Vision for the 21st Century*, published October 2010
 - 2012 - Green Strike Group local ops in 2012
 - By 2016 - Sail Green Fleet
 - By 2015 - Reduce petroleum by 50 percent in the commercial vehicle fleet
 - By 2020 – 50 percent of total energy consumption from alternative sources

Army

- *Army Energy Security Implementation Strategy* – 2009
 - ESG 3: Increased use of Renewable/Alternative Energy
 - ESG 4: Assured Access to Sufficient Energy Supply
 - ESG 5: Reduced Adverse Impacts on the Environment
 - Established a Tactical Fuel and Energy Implementation Plan

Quantification of Goals

- Air Force
 - 2016: 387,000,000 USG HRJ-8
- Navy
 - 2012: 100,000 USG HRJ-5; 350,000 USG HRF-76
 - 2016: 1,680,000 USG HRJ-5; 1,680,000 USG HRF- 76
 - 2020: 336,000,000 USG HRJ-5 & HRF-76
- Army
 - 2018: 16,000,000 USG HRJ-8
 - 2019: 19,000,000 USG HRJ-8
 - 2020: 22,000,000 USG HRJ-8



DLA Energy's Role with Alternative Fuels

- Support the Services' Test and Certification Efforts
 - Procurement of product for testing
 - Collaboration
- Integration of Product into the Supply Chain
 - No separate NSN for blended bulk mobility fuels
 - Use existing infrastructure
- Fuel Procurement for Operations
 - Driven by Service Requirements
 - Specifications
 - Quantity
 - In compliance with FAR and DFARS



Efforts to Date

- Support Service testing & certification efforts
 - Fischer-Tropsch
 - Four contracts: JP8, F76
 - 730,000 USG delivered
 - Coal-to-liquid, Gas-to-Liquid
 - Hydrotreated Renewable
 - Seven contracts: HRJ8, HRJ5, HRF76
 - 761,500 USG
- B-20/E-85
 - Over 36,000,000 USG since 2006



Alternative Fuel Supply Chain “Pillars”

- Must be a drop-in-replacement fuel
 - Use existing transportation and distribution infrastructure
 - No modifications to weapons platforms
- “Competitive” price
- Environmentally compliant with Section 526
- Complies with existing procurement statutes/regulations
- Leverage private sector demand



Bridging the Gap

Testing and
Certification
Volumes



Full
Production
Level
Volumes



- Continued support of testing & certification efforts
 - Must have approved specifications to solicit
- Continued intergovernmental & private sector collaboration
 - Synergism required to make alternative aviation fuels a reality
- Blue-print to feasible objectives
 - A game of “singles” vs. home runs
- Continued unified commitment: Budget, requirements



Summary

- DLA Energy responds to customer requirements
- Need to be in sync with commercial customers, and the development of the production base
- Right-sized, scaled demonstrations will be the link between test/certification volumes and full scale production levels
- Patience is the key