

Sustainable Aviation Fuels



Background

- Highest per capita GHGe
- Transport Fuel, ~ 15 % GHGe
- 2010, 51 GL (315 million barrels; 5% U.S.)
- Jet fuel, 7 GL(13%); Gasoline, 19 GL(37%); Diesel, 19 GL (37%)
- Extensive land, abundant sunshine, suitable climate, aggregated waste streams
- World class expertise basic and applied science, technology and engineering
- Demonstrated capacity to develop and sustain large-scale resources industries
- Stable political, legal, regulatory & financial systems

Progress to date towards SAF

- Australian International Air show, Mar 2011 (ussc.edu.au/events/past/Avalon-2011-Alternative-aviation-fuels-forum)
- Flight Path to Sustainable Aviation, SAFUG Consortium, May 2011 (csiro.au/resources/sustainable-aviation-fuel-report)
- Queensland Sustainable Jet Fuel Initiative (ussc.edu.au/s/media/docs/other/110302_Avalon_McCarthy.pdf)
- Commercial airline SAF Programs
 - Qantas (qantas.com/au/travel/airlines/sustainable-aviation-fuel/global/en).
 - Virgin Australia (renoil.com.au/downloads/VirginAustraliaPartners.pdf)
- Inaugural Alternative Fuels Summit, Sep 2011; Bioenergy Australia
- Australian Government, Securing a Clean Energy Future (www.cleanenergyfuture.gov.au)
- National Energy White Paper (www.ret.gov.au/energy/facts/white_paper/Pages/energy_white_paper.aspx)
 - Alternative Fuels Strategic Issues Group
- Australian Trade Commission (www.austrade.gov.au)

2012

U.S. & Australia Memorandum of Understanding for Development of SAF, FAA & DRET, 13 Sep 2011

- Australian Steering Committee, Dec 2011
- Work Plan
 - Aligning methods & results, SAF availability
 - Executing R&D roadmap collaboration
 - Coordination fuel qualification and certification
 - Assessment of feedstock readiness
 - Linking the whole value chain
 - Environmental sustainability analysis
 - SAF supply chain & infrastructure
 - Other beneficial programs



Sustainable Maritime Fuels Forum, 31 Jan – 01 Feb
ussc.edu.au/events/Pacific-2012-International-MaritimeConference