



Alternative Fuels & Chemicals Coalition

Advocating for Public Policies to Promote the Development & Production of Alternative Fuels, Renewable Chemicals, Biobased Products, and Sustainable Aviation Fuels

AFCC'S FY2023 Legislative & Funding Requests

AFCC Contacts:

CJ Evans, Executive Director, Tel. 202-922-0144, email: cj@AltFuelChem.org

Rina Singh, PhD., Executive Vice President, Tel. 202-922-0144, email: rina@AltFuelChem.org

Committees:

House and Senate Transportation, Housing and Urban Development, and Related Agencies Appropriation Subcommittees

THUD Priority:

#1 of 2

Federal Agency:

Department of Transportation

Federal Agency Account:

Federal Aviation Administration; Research, Engineering, and Development

Consolidated Appropriations Act of FY2022, H.R. 2471, page 645:

From which the FAA provides funding for:

- (1) **Alternative Fuels for General Aviation**
- (2) **NextGen Environmental Research: Aircraft Technologies, Fuels, and Metrics**
- (3) **Innovation and Emerging Technologies**

Type of Request:

Legislative language and funding

Amount Requested by AFCC:

For Research, Engineering, and Development: Maintain FY2022 funding level of \$248,500,000.

AFCC RECOMMENDS adding a stipulation to the FY2023 appropriations language which states—

Provided, That of the sums appropriated under this heading—

- (1) not less than \$7,000,000 shall be available for Alternative Fuels for General Aviation activities;
- (2) not less than \$33,500,000 shall be available for NextGen Environmental Research: Aircraft Technologies, Fuels, and Metrics activities; and
- (3) not less than \$8,500,000 shall be available for Innovation and Emerging Technologies activities.

Amount of Federal Funding Included in the President's Budget Request for the Coming Fiscal Year:

Pending



Amount of Federal Funding Appropriated for the Program During

FY 2019: \$191,000,000

FY 2020: \$192,665,000

FY 2021: \$198,000,000

FY 2022: \$248,500,000

AFCC's Justification / Rationale for This Request:

(1) AFCC STRONGLY SUPPORTS CONTINUED AND INCREASED FUNDING FOR RESEARCH, ENGINEERING, AND DEVELOPMENT OF ALTERNATIVE FUELS FOR GENERAL AVIATION.

For every hour of flight, a passenger jet emits 200 pounds of CO₂. For a flight with 200 passengers, that's one pound per passenger per hour.

Programs aimed at improving the sustainability and competitiveness of the U.S. transportation system need to be prioritized as these programs compete with other priorities.

The impacts that climate change is having – and will increasingly have – on the U.S. economy, national security, and the lives of its citizens demands greater attention.

AFCC and its member companies have a strong focus on alternative feedstocks and fuels for aviation, which are typically derived from biological and renewable resources, and are sustainably produced in the U.S.

AFCC STRONGLY RECOMMENDS FUNDING AND PRIORITIZING THIS CRITICAL PROGRAM TO REDUCE CO₂ EMISSIONS FROM THE AVIATION SECTOR.

There is growing international demand for these sustainable aviation fuels. Mandates in the European Union and other areas of the world may require their use in overseas flights and in the U.S. military in the near future.

The renewal of this program will promote the production of sustainable aviation fuels, which will increase the use of homegrown agricultural crops, helping our farmers, advancing innovation, creating jobs and, in turn, building on and expanding the nation's biobased economy.

It will promote the use of waste products, the disposal of which create environmental liabilities, **by turning these liabilities into assets**, by producing of waste-to-value sustainable aviation fuels.

It also will allow the U.S. to restore its global position in the production as a leader in the production of sustainable aviation fuels.

Alternative fuel activities include setting policy goals, ensuring that the fuels can be safely integrated with aviation equipment and infrastructure. In the past, FAA program funding included specific appropriations for these activities. In recent budgets, the emphasis has changed to place less emphasis on this economically critical area.



(2) AFCC STRONGLY SUPPORTS FUNDING FOR THE NEXTGEN—ENVIRONMENTAL RESEARCH—AIRCRAFT TECHNOLOGIES, FUELS, AND METRICS PROGRAM OF THE OFFICE OF ENVIRONMENT AND ENERGY. The stated goal of the Aircraft Technologies, Fuels, and Metrics program is to increase mobility by reducing environmental impacts of aviation in absolute terms, including those relating to community noise, air quality and global climate change.

The program is focused on maturing aircraft innovative technologies that can reduce aircraft noise, emissions that degrade air quality, greenhouse gas emissions, and energy use, and advance alternative jet fuels.

The Office of Environment and Energy is a key component of the FAA’s environment and energy strategy. It advances understanding of aviation noise and emissions at their source, how they propagate and are modified in the atmosphere, and their ultimate health and welfare impacts on the population – both near airports and much farther afield. This knowledge is then incorporated into an integrated aviation environmental tool suite that can be used to evaluate the full breadth of environmental mitigation solutions that are being developed.

The aviation environmental tool suite is built upon a sound scientific understanding of aviation noise and emissions as well as their environmental, health, and welfare impacts. The Program is using these models and knowledge to inform decision-making on technology development, operational procedures, and policies relating to aviation’s energy use and environmental impacts.

(3) AFCC STRONGLY SUPPORTS FUNDING FOR THE INNOVATION AND EMERGING TECHNOLOGIES PROGRAM, which is a pilot program launched by the FAA in FY2022 to engage and invite proponents in industry and academia to offer proposals for new technology/innovation and demonstrate their application to address specified aviation system challenges.

Through competitive public solicitation, the program will engage broad participation, ensure equity of access, and offer participants a streamlined pathway for early consideration, adaptation, and potential transition of emerging science, engineering, and technology innovation proposals.

AFCC requests that Congress include language in the FY2023 THUD appropriations bills that provides specific mention of these three programs to ensure they are given priority.

Of the amounts requested by AFCC for these three programs, two are identical to the amounts included in the Department of Transportation’s FY2022 Budget Highlights request to Congress (page 28, Innovation and Emerging Technologies, and page 31, NextGen Environmental Research: Aircraft Technologies, Fuels, and Metrics). AFCC’s request of \$7,000,000 for Alternative Fuels for General Aviation is an increase of \$2,000,000 over the FAA’s FY2022 request of \$5,000,000 (page 28).



Alternative Fuels & Chemicals Coalition

Advocating for Public Policies to Promote the Development & Production of Alternative Fuels, Renewable Chemicals, Biobased Products, and Sustainable Aviation Fuels

AFCC'S FY2023 Legislative Requests

AFCC Contacts:

CJ Evans, Executive Director, Tel. 202-922-0144, email: cj@AltFuelChem.org

Rina Singh, PhD., Executive Vice President, Tel. 202-922-0144, email: rina@AltFuelChem.org

Committees:

House and Senate Transportation, Housing and Urban Development, and Related Agencies Appropriation Subcommittees

THUD Priority:

#2 of 2

Federal Agency:

Department of Transportation

Federal Agency Account:

Federal Aviation Administration; Grants-in-Aid for Airports, Airport Improvement Program (AIP)

Type of Request:

Legislative language and funding

Amount Requested by AFCC:

For *Grants-in-Aid for Airports, Airport Improvement Program*: \$3,350,000,000 as well as an additional \$400,000 to remain available through September 30, 2024, for airport discretionary grants.

AFCC RECOMMENDS adding a stipulation to the FY2023 appropriations language which states—

Provided further, That of the amounts made available under this heading, the Secretary shall make grants to enable airports to make necessary infrastructure changes to facilitate the use of sustainable aviation fuels."

Amount of Federal Funding Included in the President's Budget

Request for the Coming Fiscal Year:

Pending

Amount of Federal Funding Appropriated for the Program During

FY 2019: \$3,350,000,000 as well as an additional \$500,000,000 to remain available through September 30, 2021

FY 2020: \$3,350,000,000 as well as an additional \$400,000,000 to remain available through September 30, 2022

FY 2021: \$3,350,000,000 as well as an additional \$400,000,000 to remain available through September 30, 2023



FY 2022: \$3,350,000,000 as well as an additional \$554,180,000 to remain available through September 30, 2024

AFCC’s Justification / Rationale for This Request:

AFCC strongly supports the appropriations for the Federal Aviation Administration’s programs which encourage innovation and the development and deployment of new, advanced, more efficient, and planet-friendly technologies, materials, and alternative fuels. These programs include:

- *Research, Engineering, and Development*
- *Research, Engineering, and Development, Emerging Technology Accelerator*
- *Facilities and Equipment, Advanced Technology Development and Prototyping*
- *FAA Centers for Excellence*
- *NextGen, Environmental Research, Aircraft Technologies, Fuels, and Metrics*
- *Alternative Fuels for General Aviation*
- *Grants-in-Aid to Airports, Airport Technology Research*

As advancements are deployed it is important to ensure that the facilities and infrastructure necessary to accommodate and make full use these advancements also are in place.

Hence, the reason for AFCC’s request to include language in the FY2023 appropriations act to draw attention to the importance of and ensure necessary infrastructure changes are made to facilitate the use and adoption of sustainable aviation fuels.