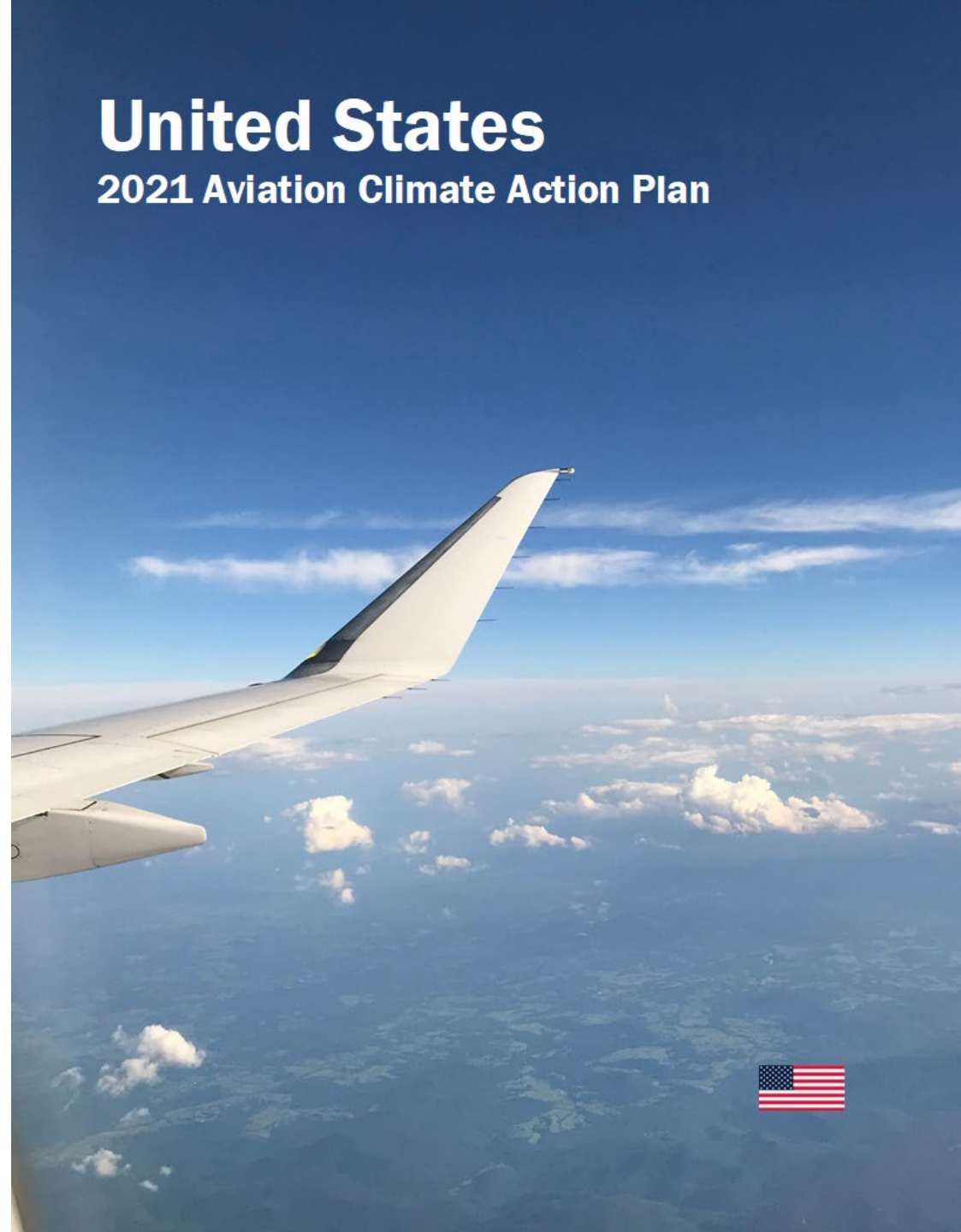


Policymaking in the U.S. to Support Sustainable Aviation Fuels (SAF)

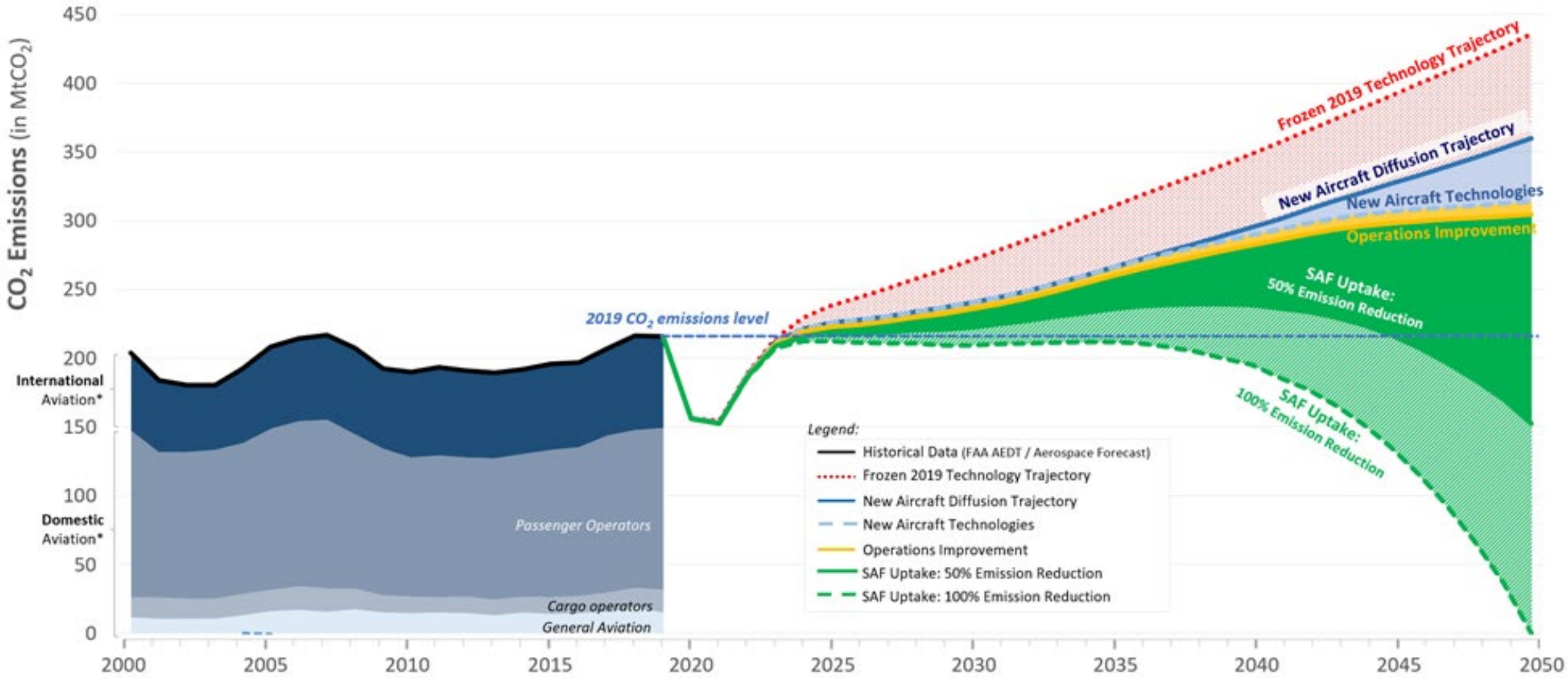
By: Dan Williams
Office of Environment and Energy
Federal Aviation Administration

Date: 26 February 2024

United States
2021 Aviation Climate Action Plan



Domestic and International Aviation CO₂ Emissions



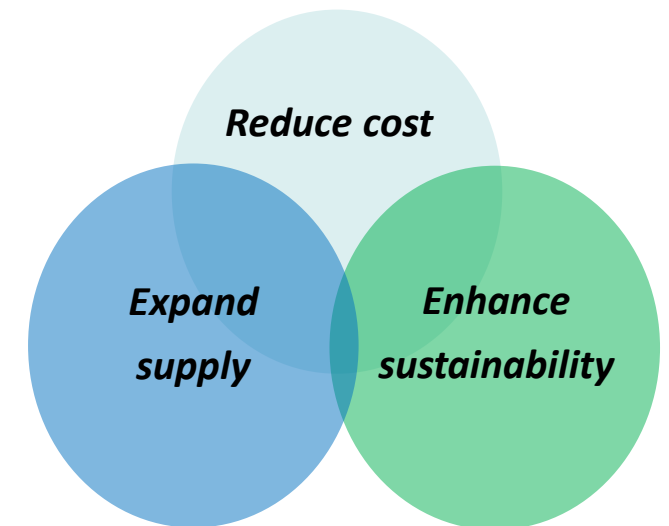
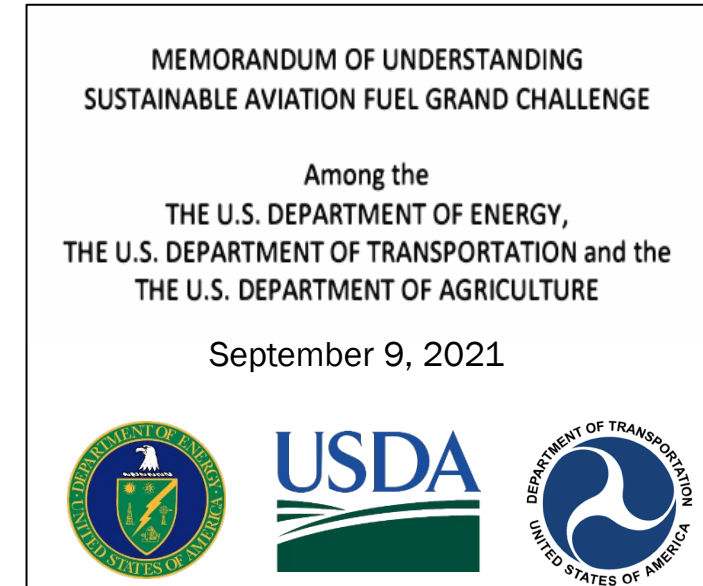
* Note: Domestic aviation from U.S. and Foreign Carriers. International aviation from U.S. Carriers.

NOTE: Analysis conducted by BlueSky leveraging FAA Aerospace Forecast and R&D efforts from the FAA Office of Environment & Energy (AEE) regarding CO₂ emissions contributions from aircraft technology, operational improvements, and SAF



U.S. SAF Grand Challenge

- Agreement by the U.S. Departments of Transportation, Energy and Agriculture to lead a whole of government approach
- Achieve 3 billion gallons of domestic SAF production in 2030 and put U.S. on trajectory to 35 billion gallons per year by 2050
- At least a 50% reduction in life cycle greenhouse gas emissions, as compared to conventional jet fuel
- Multi-agency roadmap to focus federal actions to support industry scale-up



Inflation Reduction Act (IRA) - Production support through 2027

IRA Tax Credits

SAF Tax Credit §13203 - 2023-2024

- Achieves 50% lifecycle GHG reduction
- \$1.25 with additional up to \$1.75 for additional lifecycle emissions reduction

Production Credit §13704 - 2025-2027

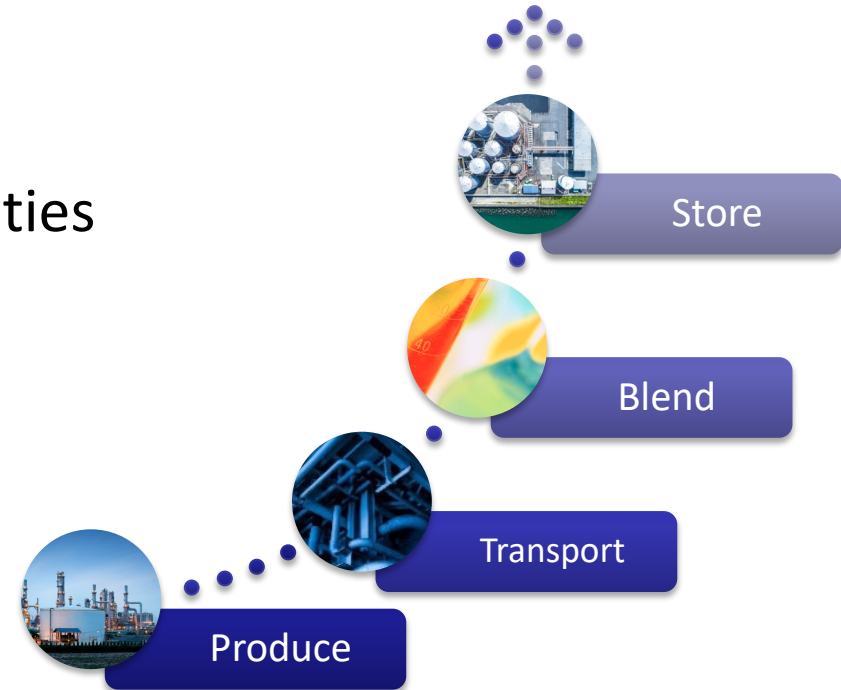
- Lifecycle GHG <50kg CO₂e/MMBTU (Jet Baseline = 94kg CO₂e/MMBTU)
- Enhanced value for SAF up to \$1.75 for 100% reduction

IRA - SAF and Clean Technology Grant Program

IRA FAST Grant Program

§40007

\$297 million (total) competitive grant program
Specifies consideration criteria and eligible entities
Carry out projects located in the U.S.
Support scale-up domestic SAF production



SAF Policy Lessons learned

- **Communicate the multiple benefits - sustainability, economic development and energy security - to build support**
- **Set a clear statement of ambition/intent to work towards (climate action plan)**
- **Technology and feedstock neutral but reward environmental performance**
- **Good data, tools, and methods are needed for the community to have a common understanding**
- **Use full range of tools including R&D, demonstration, deployment, financing as well as incentives**
- **Engage the entire supply chain – holistic approach**
- **Stakeholder involvement/advocacy are critical for success and support**



The Path to Success on SAF

- **Create an environment where producers choose to produce and sell SAF**
 - Legislative action to reduce cost and risk
- **A coordinated approach to federal agency actions that derisks technology, supply chains, and markets, and reduces barriers**
 - Actions that support near-term production
 - Ongoing innovation to support future production
 - Data collection and analysis to support markets for SAF through strong policies and focus on sustainability
- **Industry action to build and purchase SAF supply**

Inflation
Reduction
Act

SAF Grand
Challenge
Roadmap

Industry
commitments



Questions?



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**Federal Aviation
Administration**