

The logo for CCALS features the letters 'C', 'C', 'A', and 'L' in a dark blue color, and the letter 'S' in a dark red color. The letters are bold and sans-serif, with a slight gap between the two 'C's and the 'A'.

Commonwealth Center for
Advanced Logistics Systems

VIRGINIA AVIATION & AEROSPACE CAUCUS

FEBRUARY 2025



Commonwealth Center for
Advanced Logistics Systems

- ▶ **Commonwealth Center of Excellence** - non-profit funded by the Commonwealth (oversight through VIPA/VIPC)
- ▶ **Five University Consortium** - Virginia State University (VSU), Virginia Commonwealth University (VCU), Longwood University (LU), Old Dominion University (ODU), and the University of Virginia (UVA).
- ▶ **Non-Voting Members** - Virginia Chamber of Commerce, the Port of Virginia (PoVA), and the Virginia Economic Development Partnership (VEDP)
- ▶ **Business Advisory Council** - Companies and Individuals (volunteers) from across the U.S. who provide input and guidance on the future of logistics and related careers

Mission:

CCALS is the Commonwealth of Virginia's logistics and supply chain hub offering a multi-university, multi-disciplinary ecosystem that not only provides an opportunity for faculty and students to collaborate with private, public, and non-profit sector professionals to proactively engage logistics and supply-chain challenges through project and research experiences but also supports the transformation of Virginia's linear supply chain into tomorrow's "Next Generation Supply Networks" through public-private research and analytic efforts.

CCALS

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*Projects (SAF, Hydrogen-Hydrogen Hybrid,
UAS Energy Training Center)*



National/International Research
Collaborations (CHEST)



Education



Workforce - Industry Relevant Experiences

SAF Work to Date

SAF Team - University of Virginia (UVA), Department of Aviation, Commonwealth Center for Advanced Logistics Systems, Department of Forestry, Virginia Transportation Research Council (VTRC), Commercial Aviation Alternative Fuels Initiative (CAAFI), Metro Washington Airports Authority (MWAA)

Year	Total Funding	Study Team	Funding Entity	Study ID
2013	\$70,000	UVA, DOAV	VTRC	SAF Phase I Feedstock
2014-2015	\$10,000	UVA	NASA	
2015-2016	\$200,000	UVA, CCALS	VCIT	
2015-2015	\$300,000	UVA	NSF	
2021	\$112,000	UVA,CCALS, DOAV	VTRC	SAF Phase II Supply Chain
2024	\$22,000	UVA, CCALS, DOAV	VTRC	SAF Phase III Benchmarking
2024	\$202,000	UVA,CCALS, DOAV, CAAFI, MWAA	FAA FAST-SAF Tier-1	FAST-SAF Tier-1
2025	Pending	CCALS, UVA, DOAV		SAF Phase IV Economic Impacts
Total	\$916,000			

Sustainable Aviation Fuel High-Level Collaboration and Commitment Required



- Forestry
- Energy
- Transpo/Aviation
- Econ. Dev.
- Funding
- Policy
- Airlines
- Federal govt
- International
- Local authorities
- Operators
- SAF Producers

Positives

- Availability of Feedstock and Bio Development Opportunity (BDO) zone (Tazewell county)
- Proximity to Pipelines for transport
- Strong (recognized) systems analytics capabilities
- Global Market Access (Dulles)
- Market opportunities for SAF (Maritime)

Potential Limiting Factors

- Competition from nearby-states
- Indeterminate support
- Competing priorities for feedstock
- Few Virginia-based refineries and producers

Recommendations

- Formalize initiative and drive broader collaboration
- Invest in extended analyses and economic impact
- Position SAF as a strategic priority for Virginia
- Identify lead agency for future FAST-SAF funding that could include infrastructure construction
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Sustainable Aviation Fuels - Virginia Opportunity

CCALS Hosted Visits - March 2024 Prem Lobo, FAA Energy Division Manager, (UVA, DOAV, TRRC, VSU);
October 2024 – MWAA, SAF Stakeholders (lobbyists, airlines, etc.)



“I was very impressed by the work you have been doing on analyzing SAF supply chains in Virginia. I was pleased to see that you’ve been using the TEA tools developed under our ASCENT Center of Excellence, and FTOT (which we also fund through Volpe). I can’t stress how useful this is in any SAF development effort. Other states can learn from your work in Virginia”. – Prem Lobo

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