

Innovation Challenge: Optimizing Operational Energy



Airmen Powered by Innovation

Do you have an idea on how to **optimize aviation fuel use** and **improve combat capability** for the Air Force?

Whether it's an innovative technology that reduces aircraft drag or weight, a sustainment process to improve engine performance, a more streamlined flight plan, a solution to help mitigate risk to our fuel supply network, or anything in between, we want to hear about it!

Submit your well-researched idea through the Air Force Ideation Platform (CAC Enabled). All ideas will be reviewed and carefully considered to determine possibility of Air Force buy-in and implementation. Please be prepared to answer follow-up questions and present your idea to stakeholders.

Air Force Operational Energy (SAF/IEN) has partnered with AFWERX to facilitate and help implement your **innovative energy ideas**.



Process for Submitting Ideas

1. Think of an innovative concept on how to optimize USAF aviation fuel use! (See examples.) Make sure it is well-researched and not already being executed.
2. Submit your idea through the API Ideation Platform at <https://usaf.ideascalegov.com> (CAC-enabled). Select Command and Wing, and look for the OE campaign tile.
3. We carefully review your submission and reach out to you for any clarification or additional information.
4. If your idea is viable for the Air Force, we work with AFWERX to source funding and develop an execution plan. *You play a key role throughout implementation.*

Submission Ideas

- Energy and logistics risk mitigation
- Drag reduction devices on aircraft
- Lighter weight aircraft parts
- Streamlined flight plans during training
- 21st century technologies
- Engine sustainment processes
- Optimized fuel loads
- Efficient flight formations
- Education and training for USAF culture change

www.safie.hq.af.mil/
APIChallenge

Deputy Assistant Secretary of
AIR FORCE OPERATIONAL ENERGY



OUR MISSION

To enhance combat capability and mitigate operational risk to the warfighter through energy-informed solutions.

OUR VISION

To create an energy optimized Air Force that maximizes combat capability for the warfighter.

OPTIMIZING OPERATIONAL ENERGY LEADS TO:



INCREASED
Combat Capability



INCREASED
Aircraft Lifespan



LOWER
Aircraft Maintenance Costs



MORE
Training Opportunities

\$5-7 BILLION

is spent on Air Force aviation fuel **ANNUALLY**

81% of the Air Force **ENERGY BUDGET** is spent on aviation fuel

2 BILLION

GALLONS of aviation fuel used by the Air Force **ANNUALLY**

8,000 additional sorties fueled from a **1% EFFICIENCY INCREASE**

#FUELMOREFIGHT



**AIR
FORCE
OPERATIONAL
ENERGY**

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