

Operational Energy Capability Improvement Fund (OECIF)

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OECIF upcoming events

- Funding energy innovation that improves DoD's operational effectiveness via targeted investments aligned with DoD's Operational Energy Strategy
- Call for Papers:
 - Call for Papers open: 1 October 2023, and closes: 1 November 2023
 - Web page: <https://oecif.org>. read FY24 Call for Papers and Scoring Criteria
 - 6 pages max
 - Must have a lead Gov Primary Investigator (PI) and Gov/Service Sponsor
 - Multi year or 1 year study
 - Looking for Incremental, Revolutionary, Emergent type concepts.
 - "Hydrogen on Demand" at point of use: for Fuel cells or H2 Internal Combustion Engines (ICE)
- OECIF Operational Energy Symposium – Aviation Efficiencies set for 29 Nov 2023.

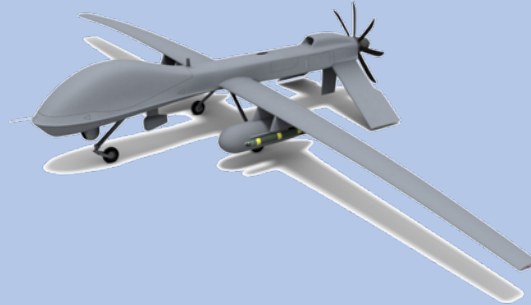


Strategic Roadmap Concepts— Aviation Efficiencies



Study

- Resilient and Efficient Fuel Cell UAS
- Hybrid Electric Rotorcraft
- Lithium Battery upgrades



Incremental

- Harvesting power from wingtip vortices
- Weight reduction with intelligent circuit breakers
- Intelligent Power Management System
- Hydrogen Fuel Cell UAS
- Reliable and Efficient Tactical Power Supply from oilless and maintenance free turbines at 5 and 35hp

TBD

Revolutionary

- Oblique Flying Wing*
- Solar Aerial Vehicle for Intelligence & Operational Reconnaissance

- Low Power, Low Weight Dehydrogenation
 - High Efficiency PEM Fuel Cell
 - Hybrid Hydrogen
 - Swarm Wall**

Emergent