



DLA

DEFENSE LOGISTICS AGENCY
Established 1961



The Nation's Combat Logistics Support Agency



Research & Development ENERGY READINESS PROGRAM (ERP)



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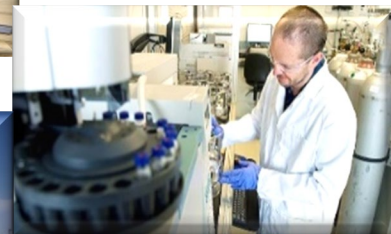
OBJECTIVE

The Energy Readiness Program (ERP) is a designated Defense Operational Energy Program and is managed under the DLA LOG R&D Program. The ERP directly supports the DoD Class III Bulk fuel and energy supply system through a multi-faceted approach to addressing current and future issues connected to the entire spans of the system. R&D projects and studies are normally developed by or in conjunction with the military service technical offices and activities.



INNOVATION & TECHNOLOGY

- Support of DoD and industry coordinated efforts to determine the effects of alternative (non-petroleum based) fuels on aircraft engine combustion.
- Support of DoD and industry coordinated efforts to develop innovative techniques to mitigate and/or prevent fuel instability, deterioration and contamination.
- Improvement and enhancement of practices and standards for fuel product additization, filtration and sampling for analysis.



STRATEGIC THRUSTS

- Keep abreast of Fuel Refining and Distribution Industry practices that affect, or potentially affect, Warfighter operational requirements.
- Coordinate with Military Services and Industry Technical Organizations to develop and structure projects addressing fuel instability and contamination problems.
- Coordinate with Military Tri-Service Petroleum, Oils and Lubricants (POL) group to optimize support opportunities for alternative fuel certification efforts.



DLA RESEARCH & DEVELOPMENT ERP PROGRAM

THE CHALLENGE

- Fuel production practices that affect product stability and integrity.
- Environmental mandates (e.g. fuel desulfurization) that can affect certain military fuel operational properties (e.g. lubricity).
- Supply infrastructure practices that contribute to fuel product contamination and adulteration.
- Decreased military budgets for the certification of alternative fuels in meeting warfighter requirements.



WARFIGHTER READINESS

THE BENEFITS

- Improved operational energy performance for the Warfighter
- Improved technology for the quality assurance and quality surveillance of fuel and energy products
- Increase in reliable product supplier base for fuel and energy products

INDUSTRY AND WHOLE OF GOVERNMENT PARTNERSHIPS

- | | |
|--------------|------------------|
| • DLA Energy | • Industry |
| • US Army | • US Air Force |
| • NATO | • US Coast Guard |
| • US Navy | • Academia |
| • US Marines | |



<https://www.dla.mil/Information-Operations/Research-And-Development/>

ACCOMPLISHMENTS & ONGOING EFFORTS

- Development of Best Practices for Fuel System Contamination Detection and Remediation, utilized by fuel system/equipment operators and laboratory personnel to perform after the presence of fuel contamination is confirmed.
- Development conditioned-based fuel-metering maintenance and calibration protocols that eliminate unnecessary upkeep expenses and increase inventory accountability performance.
- Management of congressionally funded initiative to develop refinery-scale production of biofuels produced from woody biomass for military and commercial consumption.