

Fleet Readiness R&D Program

At a Glance

What is it?

The Fleet Readiness R&D Program is designed to exploit mature technologies for existing Fleet assets to obtain energy and maintenance savings.

How does it work?

Without adversely impacting other ship systems, projects are developed for near term system/component improvements from government, industry, and academia. Project duration does not exceed two years without additional approval. Each project proposal must be based on known facts so that Return on Investment calculations can be performed for both development and implementation costs. All project proposals must demonstrate NAVSEA Tech Warrant Holder and Fleet (TMA) endorsements to optimize implementation potential.

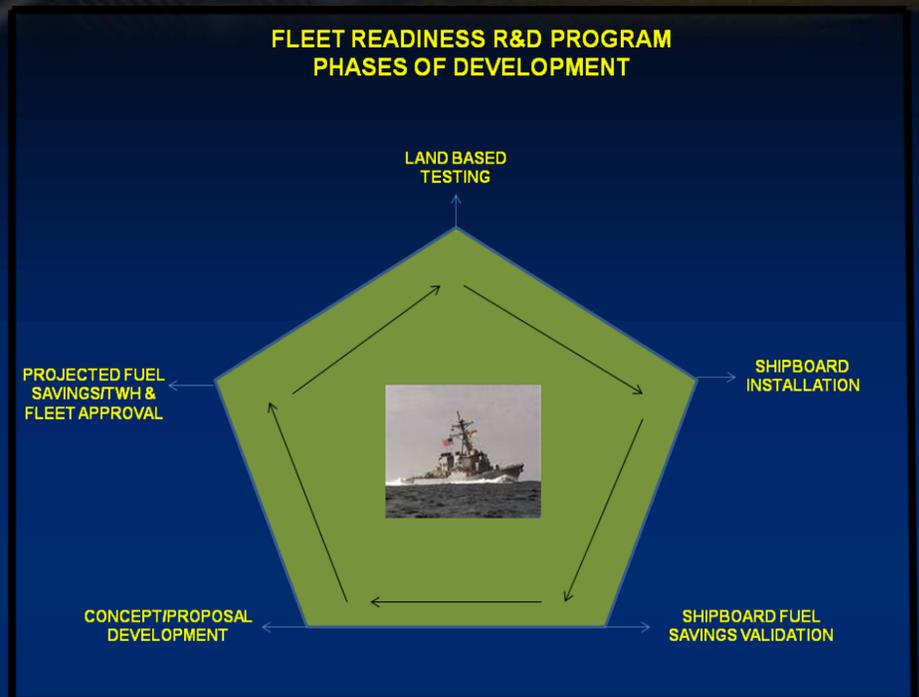
What will it accomplish?

Based on FY-08/09 proposals already underway, FY-10 proposals currently being evaluated for funding, and future projects on the drawing board, it is anticipated that current Fleet Fuel Consumption could be reduced 20% by 2020.

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Description:

The Fleet Readiness R&D Program is currently sponsoring numerous energy and maintenance saving projects under its umbrella:

- Online Waterwash System for Gas Turbine Powered Ships
- Trim Loop System for Steam Powered Ships
- Advanced U/W Hull & Propeller Coatings
- Stern Flaps for LSD/LHD Class Ships
- Advanced Shipboard Lighting System
- Steering & Stability Improvements for LHA/LHD Class Ships.

Research Challenges & Opportunities:

For FY-10, the Fleet Readiness R&D Program is evaluating projects concerned with Steering & Stability (MSC), VSD for 1000 Gal. Firepumps, and Single Generator Operations.

On the drawing board: HVAC Improvements, Diesel Engine Improvements, & Thermal Management.