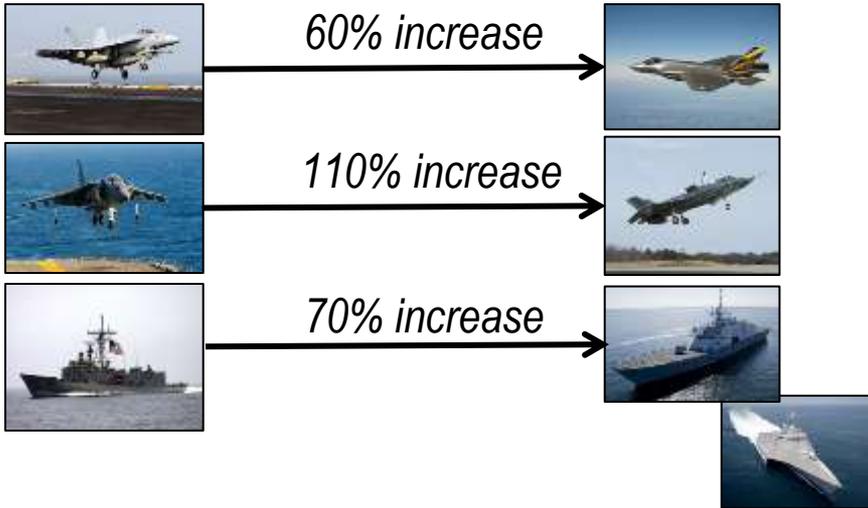


Navy Energy Program

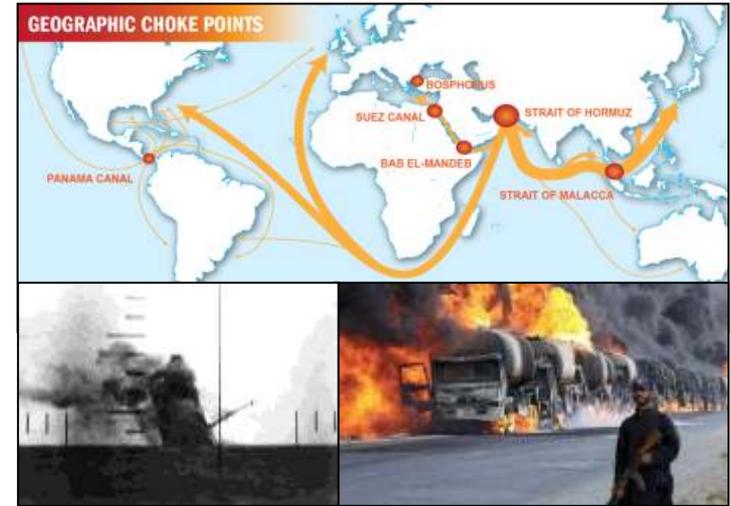
RADM Kevin Slates
11 February 2014

Why are we here today?

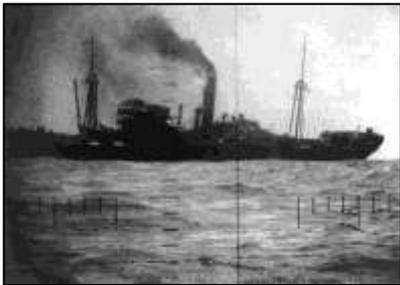
Increased Energy Demand



Unassured Supply



Fighting Hurt



Judicious use of energy is critical to sustaining operations

Energy Initiatives Afloat and Ashore

Maritime



Efficient Ship Systems



Improved Hydrodynamics



DDG-51 Hybrid Electric Drive



Combustion Trim Loop

Aviation



Operations & Policy



Research & Development



Science & Technology



Flight Simulators

Biofuels



F/A-18 Super Hornet



Riverine Combat Boat-X



MH-60S Seahawk



T-AO/CG/DDG/CVN

Shore



Solar/Wind/Geothermal



Advanced Metering



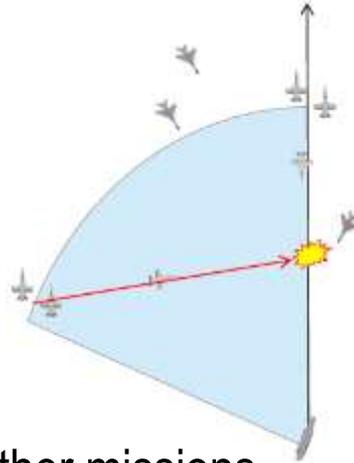
Navy's Smart Grid



Advanced Power

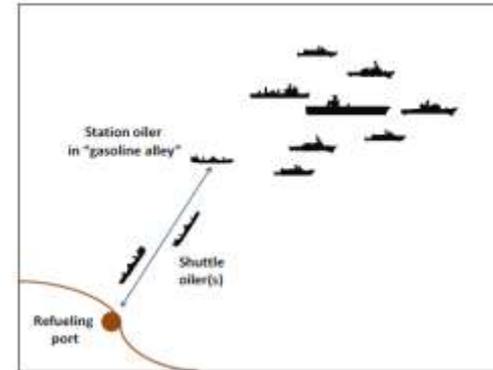
Investments in efficiency and alternative reflect a portfolio approach

Air Operations



- Time at max power
- Range and endurance
- More F-18E available for other missions
- Reduces required number of F-18E tankers

Surface Operations



- Operational flexibility
- Increased time on station
- Increased time/distance between refuelings

Expeditionary Operations



- Reduced convoys to Forward Operating Bases (FOBs)
- Extended range and endurance



Fuel efficiency increases combat effectiveness

■ Challenges

- We have thought of fuel like air... always there and always free.
- Technology helps but is not the final solution.
- We lose capability if we don't change our approach.

■ Initiatives

- Energy training
- i-ENCON
- Air ENCON
- “Did You Know?”
- ACQ Policy



“Save energy when you can” → “Save energy unless you can't”



"History doesn't always repeat itself, but it rhymes"