Navy Task Force Energy

Aviation Working Group

Security - Efficiency - Environment
“Operate, fight, and win more effectively and more efficiently, making the most of our precious resources”

– Naval Aviation Vision 2020
Aviation Energy Goals:

• Reduce consumption
• Increase efficiency
• Increase alternative energy utilization
The F/A-18 “Green Hornet” is the first aircraft to achieve supersonic flight using renewable biofuel (April 2010)
Composites and other advanced materials reduce aircraft weight by 10-40% for improved fuel efficiency.
Low-drag polymer coatings are under evaluation to improve aircraft fuel efficiency up to 6%
The efficient GE-38 engine will provide the H-53K Heavy Lift Helicopter with best-in-class fuel economy.
Optimized simulator utilization assures continued mission readiness while reducing energy demand
Enhanced mission planning tools minimize sortie fuel consumption
Variable Cycle Engine Technology is under development to reduce specific fuel consumption up to 20%
Naval Aviation: Meeting the Navy's energy challenges today, tomorrow and beyond