

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



Security • Efficiency • Environment



Aviation Energy Goals:

- *Reduce consumption*
- *Increase efficiency*
- *Increase alternative energy utilization*

Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited

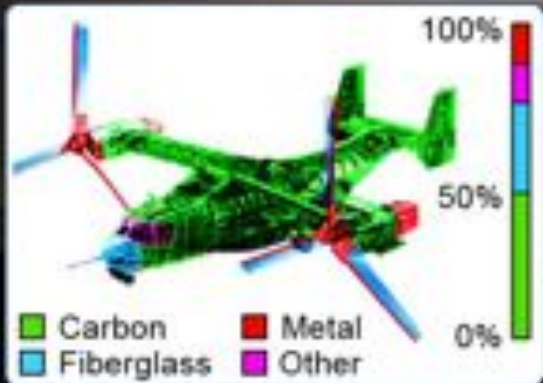


The F/A-18 “Green Hornet” is the first aircraft to achieve supersonic flight using renewable biofuel (April 2010)



Security • Efficiency • Environment

Composites and other advanced materials reduce aircraft weight by 10-40% for improved fuel efficiency



Security • Efficiency • Environment



Low-drag polymer coatings are under evaluation to improve aircraft fuel efficiency up to 6%



Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited

The efficient GE-38 engine will provide the H-53K Heavy Lift Helicopter with best-in-class fuel economy



Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited



Optimized simulator utilization assures continued mission readiness while reducing energy demand



Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited

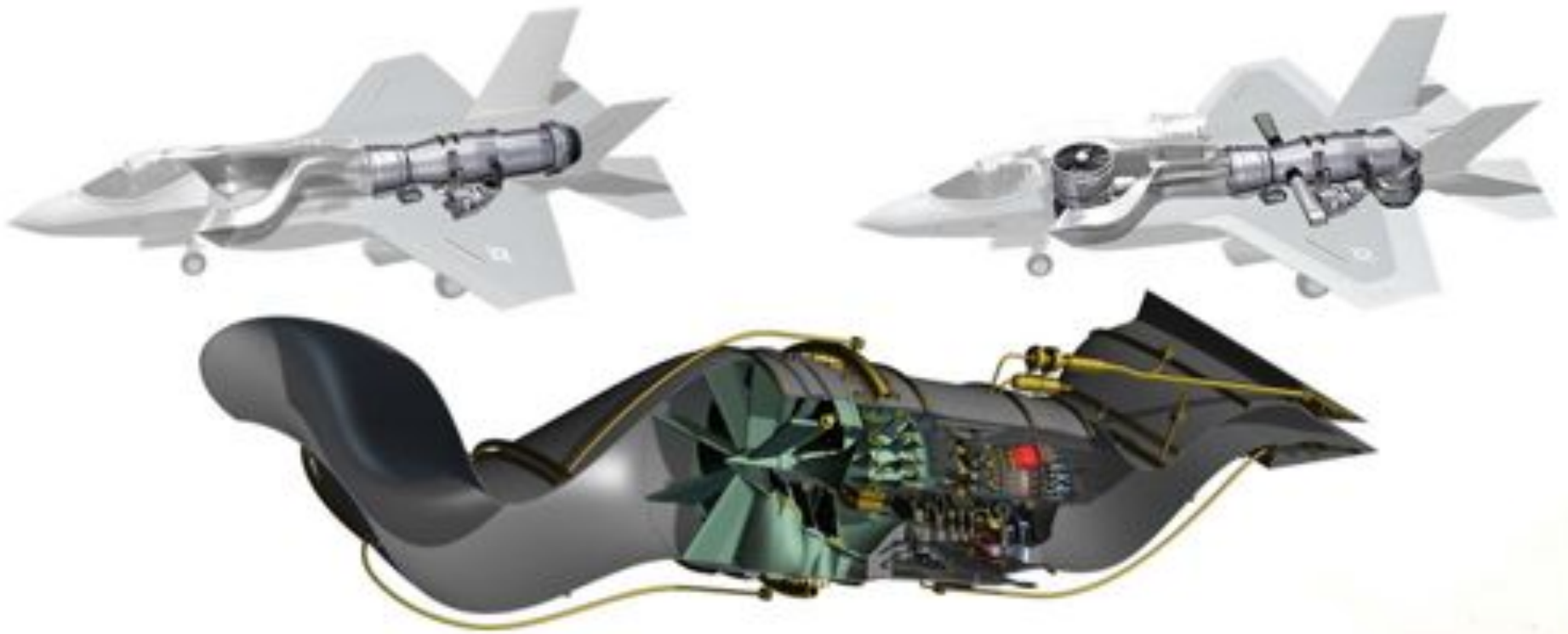


Enhanced mission planning tools minimize sortie fuel consumption



Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited



Variable Cycle Engine Technology is under development to reduce specific fuel consumption up to 20%



Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited

Naval Aviation: Meeting the Navy's energy challenges today, tomorrow and beyond



Security • Efficiency • Environment

Distribution Statement A: Approved for public release: distribution unlimited