



I AM AIR FORCE ENERGY:

Your Role in Sustaining an Assured Energy Advantage in Air, Space and Cyberspace

Power the Force. Fuel the Fight.



Why is energy critical to Mobility Air Force (MAF)?

- The Air Force spent almost \$7.4 Billion on jet fuel in 2013—\$4.3 Billion used by MAF.
- Every Air Force dollar not spent on fuel is a dollar available for other priorities.
- Fuel efficient operations increase mission effectiveness, extend range and/or expand capacity.
- Energy security equals national security and every Airman has a role to play.
- It costs fuel to carry fuel. Four to five percent of excess fuel carried is consumed every hour just to carry that fuel.

What is the Air Force doing?

- Investing in new technology like the C-5M and KC-135 propulsion upgrade program which moves cargo farther, more efficiently, in less time, with lower maintenance and fuel costs.
- Regular KC-10 engine cleaning avoided using 939,000 gals of fuel and spending \$2.9 Million in 2012.
- Investing in Distributed Mission Operations, which links together simulators for different aircraft types to increase training event productivity for the energy used.
- Removing non-essential items on aircraft and flying the optimal speeds, altitudes and routes to maximize efficiency.
- Comparing the cost to purchase fuel down-range to the cost of carrying additional fuel which avoided more than \$13 Million per month since July 2012.
- Won eight U.S. Department of Energy Federal Energy Management Program awards in 2014 - more than any other Service.

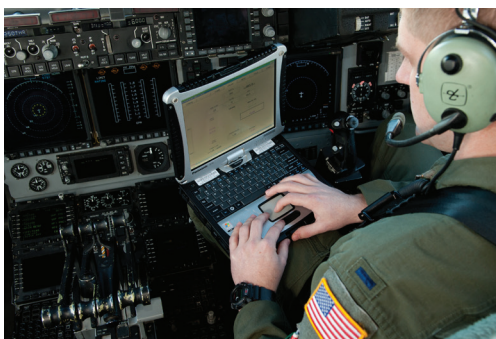
AIRMEN IN ENERGY



Air Mobility Command Fuel Efficiency Division

- Utilizing Agile Transportation for the 21st Century, a USTRANSCOM program to assist pilots, loadmasters, logisticians and other to better execute missions increases mission effectiveness, reduces sortie flight time and reduces fuel requirements.
- Applying commercial aviation solutions by introducing Cost Index Flying into flight planning solutions and execution, fielding two-dimensional (speed & altitude) flight planning optimization and investing in a four-dimensional (speed, altitude, latitude and longitude) optimization MAF Flight Planning Service for the future.

AIRMEN ACCOMPLISHMENTS



Air Mobility Command; Scott Air Force Base:

- Won 3 U.S. Department of Energy Federal Energy Management Program awards, including one of the Air Force's eight wins in 2014 for the Surfing Aircraft Vortices for Energy (\$AVE) initiative.
- Implemented Mission Indexed Flying Software on C-5, C-17, KC-10, KC-135 aircraft that optimizes flying altitude and speed based on real-time weather avoiding 19.5 Million gallons of fuel since June 2011.
- Increased the cargo weight delivered on channel missions which reduced sorties and avoided \$68 Million in flight hour cost in FY12.
- Established wing fuel efficiency offices responsible for oversight and program management at tactical levels regarding aviation fuel efficiency measures.

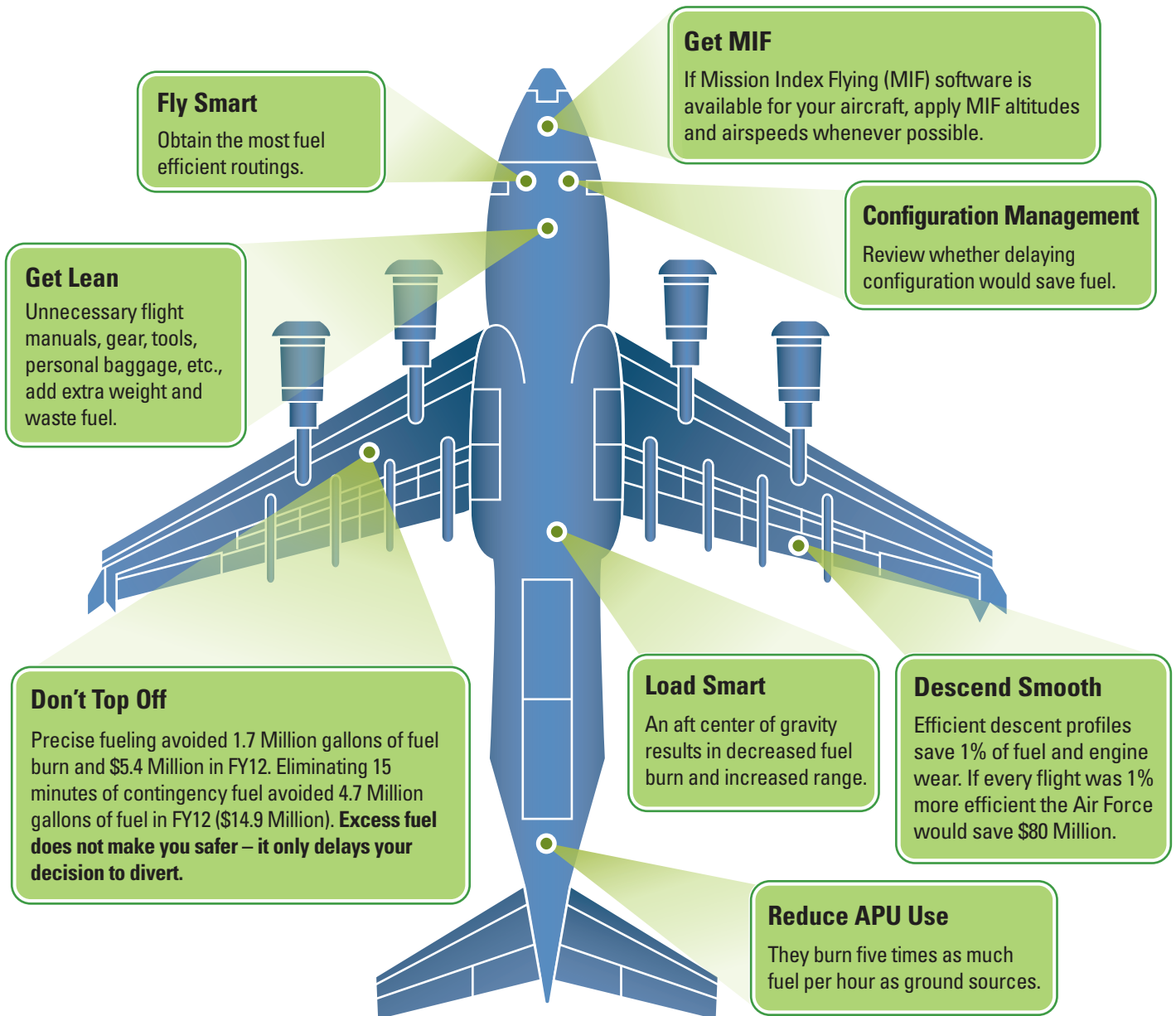
“Energy is a fundamental component of all Air Force operations. The smart use of energy means flying our aircraft farther, transporting more cargo and accomplishing our mission in a more efficient and effective way.”

Deborah Lee James
Secretary of the Air Force

Mark A. Welsh III
General, USAF; Chief of Staff

James A. Cody
Chief Master Sergeant of the Air Force

DO YOUR PART*



* <http://www.fueleconomy.gov/feg/drivehabits.shtml>

To submit your energy idea, visit Airmen Powered by Innovation on the AF Portal