Headquarters U.S. Air Force

Integrity - Service - Excellence

U.S. Air Force Energy Program



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U.S. AIR FORCE



Why We Fly















Putting AF Energy into Perspective

U.S. AIR FORCE

AVIATION



4,693 Aircraft
2 x UPS, United, Delta and
Southwest combined

To Operate...

FACILITIES



626M Sq Ft of Bldgs 88 x Microsoft Corp 1.5 x GM

INSTALLATIONS



10M Acres of Land 2 x the size of N.I

VEHICLES



80,440 non-tactical vehicles
Equivalent to all government
owned cars in OR, IN & NC

FUEL



2.2B gallons
Enough to fill
Yankee Stadium 25x

Requires...



Salaries for all NFL, NHL, MLB, and NBA Teams --- \$9.6 B ---

ELECTRICITY AND HEAT



<u>62T BTUs</u> Enough to power all the homes in DE for a year



Air Force Energy Strategic Priorities

U.S. AIR FORCE



Improve Resiliency
Reduce Demand
Assure Supply
Foster an Energy Aware Culture

ENERGY VISION:

To Sustain an Assured Energy Advantage in Air, Space and Cyberspace



Progress Toward Air Force Energy Objectives

OBJECTIVE

Reduce aviation fuel consumption by 10% from 2006 baseline by 2015

12% reduction through FY12

New Obj: Improve aviation energy efficiency 10% by 2020 from a 2011 baseline

OBJECTIVE

Be prepared to acquire 50% of domestic aviation fuel requirements via an alternative fuel blend by 2016

FT & Biofuels Complete

New Obj: Increase use of cost-competitive drop-in alt aviation fuel blends to 50% of total domestic consumption by 2025

OBJECTIVE

Reduce facility energy intensity by 30% by 2015 from 2003 baseline (2012 target – 21%)

21.2% reduction since 2003

New Obj: Reduce energy intensity by 30% by 2015 (2003 baseline) and 1.5% annually through 2020 (2015 baseline)

OBJECTIVE

Increase renewable energy use to reach 25% by 2025 (2012 target – 5%)

5.5% in FY12

OBJECTIVE

Reduce non-tactical vehicle petroleum fuel use by 2% annually from 2008 baseline (2012 target – 8%)

8% reduction since FY 08



Renewable Energy

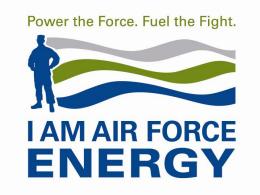




Looking Forward

- Ensuring the ability to quickly resume operations after energy interruptions
- Identifying efficiencies to improve energy use
- Partnering with industry on alternative fuels and renewable energy
- Increasing the Airmen's understanding and awareness of energy





Reducing our energy demand is the single, best action to improve our energy security



Conclusion

"Persistence and commitment will be needed to provide the energy options and flexibility our civilians and military leaders need. By improving the way DoD uses energy, we can create a more agile, lethal, adaptable, and effective force."

Secretary Michael DonleyUnited States Air Force7 August, 2012

