

# ***Headquarters U.S. Air Force***

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*Integrity - Service - Excellence*

## **U.S. Air Force Energy Program**



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Deputy Assistant Secretary  
Energy**

**U.S. AIR FORCE**

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# *Why We Fly*



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# Putting AF Energy into Perspective

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## 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 NJ

## 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...

**\$9 billion**

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

## ELECTRICITY AND HEAT

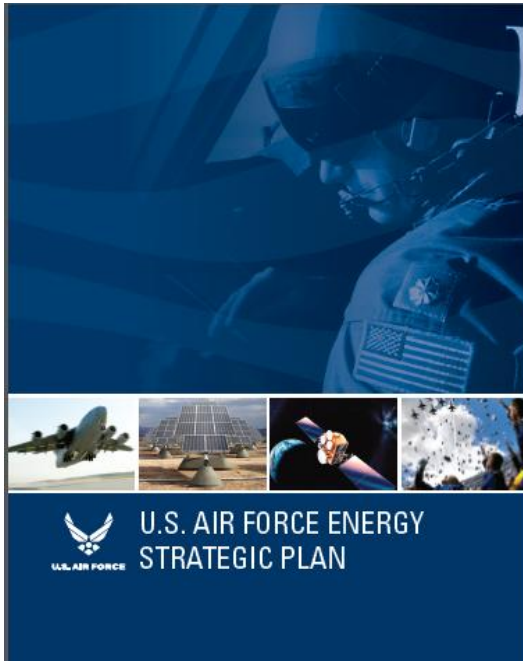


**62T BTUs**  
Enough to power all the homes in DE for a year



# ***Air Force Energy Strategic Priorities***

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**Improve Resiliency  
Reduce Demand  
Assure Supply  
Foster an Energy Aware Culture**

**ENERGY VISION:  
To Sustain an Assured Energy Advantage  
in Air, Space and Cyberspace**



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# Progress Toward Air Force Energy Objectives

<b>OBJECTIVE</b>	<b>Reduce aviation fuel consumption by 10% from 2006 baseline by 2015</b>	<b>12% reduction through FY12</b>
	<i>New Obj: Improve aviation energy efficiency 10% by 2020 from a 2011 baseline</i>	
<b>OBJECTIVE</b>	<b>Be prepared to acquire 50% of domestic aviation fuel requirements via an alternative fuel blend by 2016</b>	<b>FT &amp; Biofuels Complete</b>
	<i>New Obj: Increase use of cost-competitive drop-in alt aviation fuel blends to 50% of total domestic consumption by 2025</i>	
<b>OBJECTIVE</b>	<b>Reduce facility energy intensity by 30% by 2015 from 2003 baseline (2012 target – 21%)</b>	<b>21.2% reduction since 2003</b>
	<i>New Obj: Reduce energy intensity by 30% by 2015 (2003 baseline) and 1.5% annually through 2020 (2015 baseline)</i>	
<b>OBJECTIVE</b>	<b>Increase renewable energy use to reach 25% by 2025 (2012 target – 5%)</b>	<b>5.5% in FY12</b>
<b>OBJECTIVE</b>	<b>Reduce non-tactical vehicle petroleum fuel use by 2% annually from 2008 baseline (2012 target – 8%)</b>	<b>8% reduction since FY 08</b>



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# *Renewable Energy*



PEV-V2G Vehicles



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# *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**



Power the Force. Fuel the Fight.



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



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# ***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 Donley  
United States Air Force  
7 August, 2012



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