




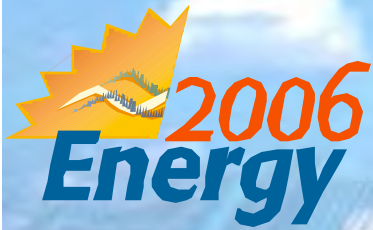
# THE ARMY ENERGY CAMPAIGN PLAN



Behind the  
Wheel:  
Management  
Focus

A large, semi-transparent watermark of the Army Energy Campaign logo is centered on the page. It features a stylized atom symbol in the center, surrounded by the words 'ARMY ENERGY' in a circular arrangement.

DON JUHASZ PE, CEM  
CHIEF Energy & Utilities Policy  
Office of Assistant Chief of Staff  
for Installation Management



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## Challenges To Managing The Future

- World population growing: 2006 = 6.5 Billion, by 2030 estimate is 7.9 Billion
- World oil demand up since 2000: Up 7 million barrels per day (mbd), 2 mbd increase in China, 1.4 mbd increase in India.
- Hurricanes Katrina and Rita shut down 27% of US oil refining capacity, production is still off 400,000 barrels per day.
- US oil imports increasing: 33% in 1973, 58% in 2006, current rate will require 70% by 2020.
- In 1973 North America consumed twice as much oil as Asia. In 2005 Asian consumption exceeded that in North America
- US oil consumption up: 20.7 mbd in 2004, 21.1 mbd in 2006.



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- Energy and Water is a \$1 BILLION Army program.
- Commodity prices are rising – at an alarming rate – up 17% this winter per DOE Energy Information Administration
- Army Energy use is increasing, up 1.3 % over the last two years.
- In recent years, the Army has under funded the Utilities Services Account, forced cash flow FY04 of \$100M; FY05 \$215M
- No investment flexibility for energy improvements.

LOOMING FUEL CRUNCH + RISING PRICES +  
INCREASING USE + NO ARMY INVESTMENT PROGRAM IN  
UTILITIES MODERNIZATION  
= *RECIPE FOR DISASTER*



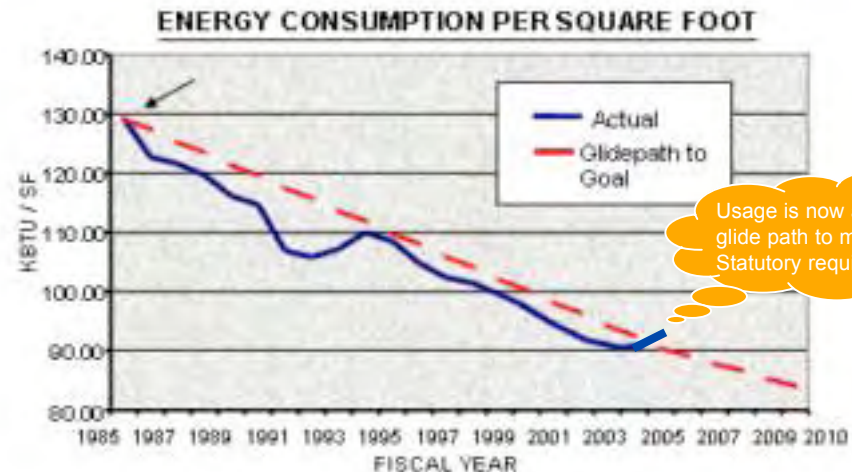
# Why an Energy Strategy?

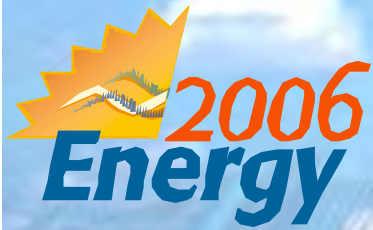
EPACT 2005 requires a 2% /yr reduction from 2006 to 2015 using on 2003 baseline Baseline EPACT 05

*We expect 2005 energy consumption figures will show the Army increased energy use in FY 04 and FY 05. Despite this recent trend, overall we have reduced energy use by 28.8% since 1985.*

Current trend caused by:

- ✓ Mobilization/ OPTEMPO
- ✓ Increased operations at Reserve and Nat'l Guard facilities
- ✓ Increased use of energy inefficient facilities





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## Army Energy Strategy for Installations

Approved by the SecArmy and Chief of Staff of the Army – 8 Jun 05

Establishes vision of Army Energy Program built on five initiatives:

- ✓ ***Eliminate energy waste in existing facilities;***
- ✓ ***Increase energy efficiency in renovation and new construction;***
- ✓ ***Reduce dependence on fossil fuels;***
- ✓ ***Conserve water resources; and***
- ✓ ***Improve energy security.***

**Next Step: Implement -- “Army Energy and Water Campaign Plan”**

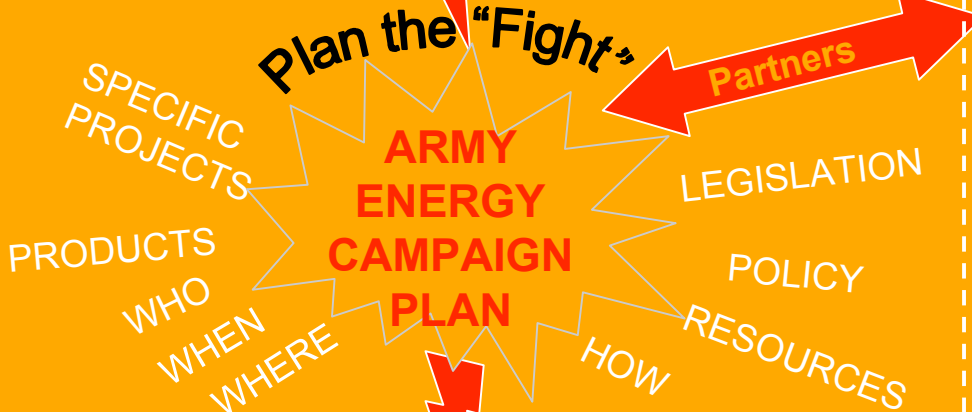
Step 1: Set the Army Strategic Objective (Set Expectations)

**Set the Direction**  
WHAT DO WE WANT TO ACHIEVE

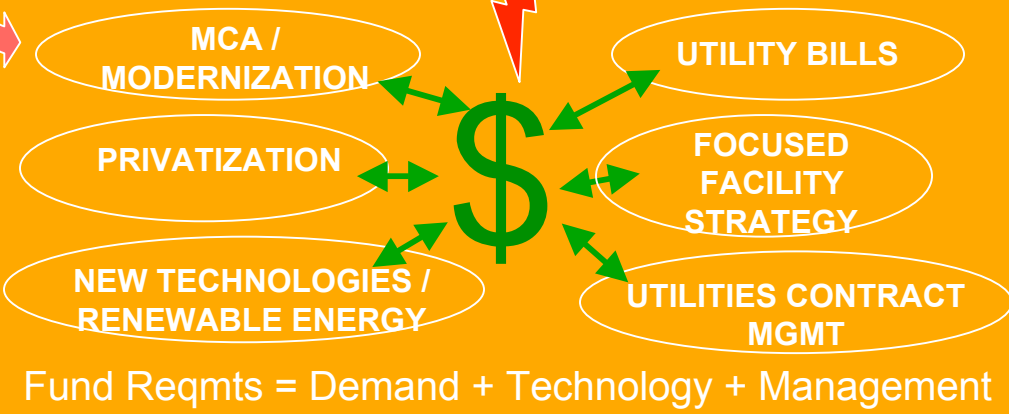
**ARMY ENERGY STRATEGY**

**Define Victory**  
BROAD GOALS AND OBJECTIVES

Step 2: Select specific projects, identify technology, provide req'd auth, assign responsibility



Step 3: Provide the Resources to accomplish the Campaign Plan (Funding, skill sets, commitment)



**POM YEARS** → **LONG RANGE PROGRAM REQUIREMENTS**  
FY08 ————— 2030

**INVOLVE ALL STAKEHOLDERS**

- G-3 / OPMG – Priorities/Security
- ACA/ASA(ALT) – Acquisition
- USACE – Power Procurement
- ABO/ASA(FM) – Resources
- IMA – Installations
- MACOMs – Major consumers
- OSD – Overarching DoD Policy
- Other Services – Shared solutions, consistent approach
- DOE – Federal Energy Goals / ESPC / Federal Energy Vision
- PVT INDUSTRY – Suppliers / Providers / Technology Experts



Put "Energy" in front of every soldier and leader everyday.



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- Initiative 1: Eliminate energy inefficiencies that waste natural and financial resources, and do so in a manner that does not adversely impact comfort and quality of the facilities in which Soldiers, families, civilians and contractors work and live.
  - Establish and gain POM support for energy initiatives & projects
  - Establish energy use accountability in the chain of command
  - Provide Full Time trained energy staff at installation level
  - Revamp energy rewards and recognition programs
  - Foster sustainable buildings approach
  - Develop installation energy management plans
  - Develop a recapitalization program for Army-owned utility systems
  - Develop information management systems and controls



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- Initiative 2: Increase the use of energy technologies in construction and major renovation projects that provide the greatest cost-effectiveness, energy efficiency, and support the Army's environmental objectives.
  - Set energy performance criteria for new & renovated projects & develop energy-based Army Standard Designs
  - Improve energy monitoring to meet goals of EPACK 2005
  - Enforce & change policy & law to require energy savings to be retained and used for energy programs at the installation
  - Reduce utility costs through minimized price volatility & utility procurements
  - Institute peak load management practices
  - Incorporate Sustainable Design and Development Standards using LEED
  - Develop formal guide for installation energy assessments



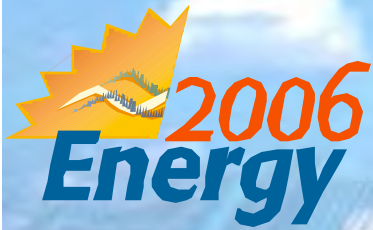


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- *Initiative 3:* Increase use of clean, renewable energy to reduce dependence on fossil fuels and to optimize environmental benefits and sustainability.
  - Use renewable energy resources when life-cycle cost effective
  - Increase use of renewable energy through investment in technical advancements
  - Reduce fossil fuel usage by:
    - Expanded use of alternative fueled vehicles
    - Increased use of alternative methods of space and hot water heating
  - Modernize central heating & cooling energy systems



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- *Initiative 4: Reduce water use to conserve water resources for drinking and domestic purposes.*
  - *Reduce water storage and distribution system losses*
  - *Reduce domestic water consumption by employing innovative methodologies and technologies (boilers, cooling towers, ETC)*
  - *Use increased efficiency plumbing fixtures*
  - *Alternative irrigation techniques (non-potable water) & zero landscaping*
  - *Reclaim and recycle water including rainwater and condensate*

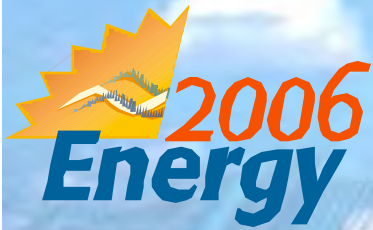


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- *Initiative 5: Provide for the security and reliability of our energy and water systems in order to provide dependable utility service.*
  - *Develop viable energy security plans and water vulnerability assessments that are incorporated into force protection plans*
  - *Insure that privatized utility systems meet reliability and security criteria*
  - *Diversify energy portfolio, to include distributed generation, particularly at critical mission facilities*



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**Provides the road map for ensuring Army Energy and Water is available, safe, reliable, and secure through the next 25 years.**

- ✓ ***Provides the way ahead for leveraging policy, programs, resources and other investment programs to meet all Army energy and water goals.***
- ✓ ***Provides detailed plans, identifies metrics, lead agents and other resources needed to execute the strategy.***
- ✓ ***Provides the year-by-year investment plan, proposes projects and systems, ties in all energy users and policy proponents (e.g., security, privatization, procurement, technology, construction, and environmental concerns).***



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## *The Future “Army of One”*





# Contact Information



Behind the  
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<http://www.hqda.army.mil/acsimweb/homepage.shtml>  
then energy link