



Energy

Developing and Implementing a Successful Energy Management Program

Energy 2003

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New Age of Energy Security

Conclusions

- DoD - long step recognizing importance of U&E
- Crucial backbone
- Proactive
- Need your input / help / innovations
- To get to the next level with energy / energy security, we must do it together

Advantages

- Achieve through comprehensive energy strategy
 - Infrastructure modernization
 - Energy source flexibility
 - Energy waste reduction
- Proactive
 - Risks → Our management
 - Mission accomplishment

Challenges / Drawbacks

- New territory to explore
- More risky -- from inexperience
- Requires investment

A TIME FOR TRANSFORMATION

Plan/Proposal

- Modernize the infrastructure
- Invest in
 - Energy conservation
 - Energy efficiencies
 - Demand reductions
- Exploit flexible energy sources

→ Focus on leadership / execution / results

Introduction

- Statistics
 - DoD Infrastructure
 - DoD commodity costs
 - DoD size
- VP's study/report
- WIIFT
 - No longer just throwing our weight around -- now demonstrating
 - Leadership
 - Execution
 - Results

Problem

- Old school
 - Manage consumption
 - Manage goals
 - React to industry
- Stovepipe treatment

BUT

- Will not lead us to the future
- Will not leave us much of a legacy to enjoy
- Will fall behind in transformation

Facts at Hand

- CA energy crisis
- Poor state of infrastructure
- Critical infrastructure
- Poor information management
- Energy source dependence



Utilities and Energy Management

Vision

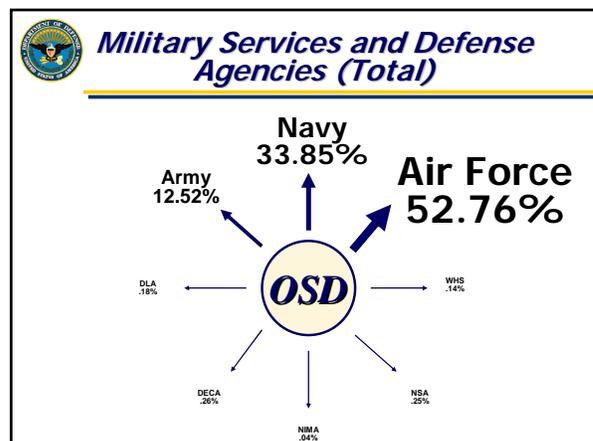
100 % reliability of utility services to the Warfighter

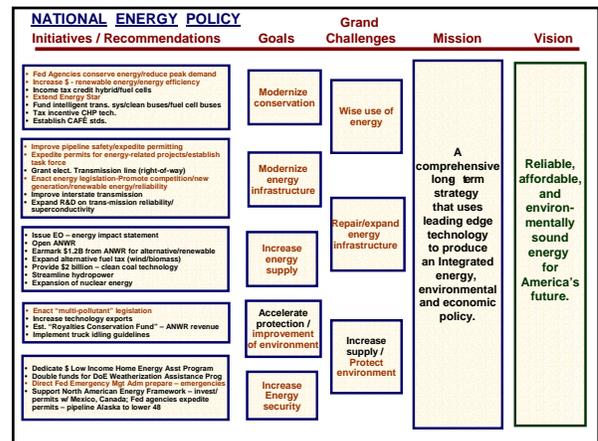
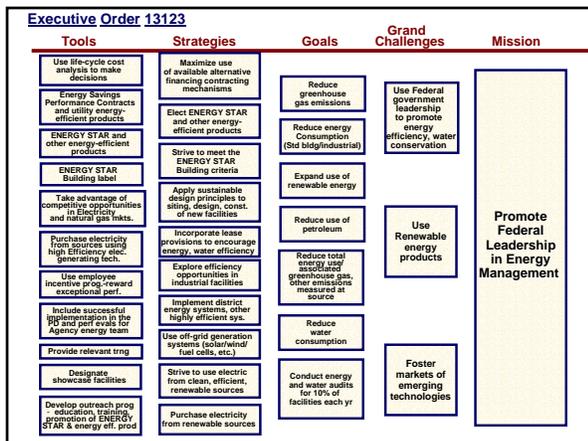
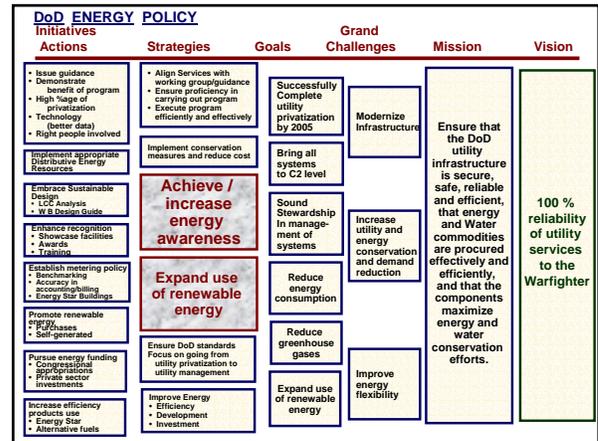
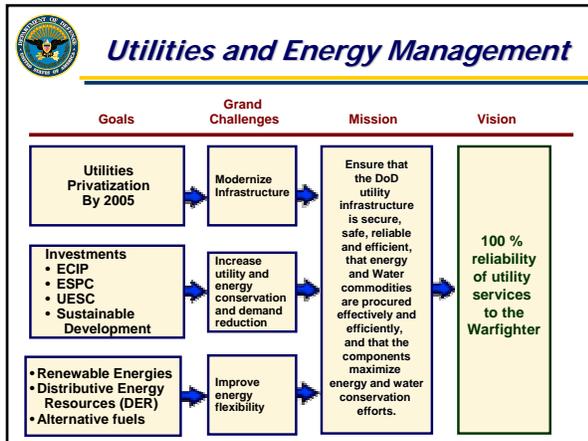
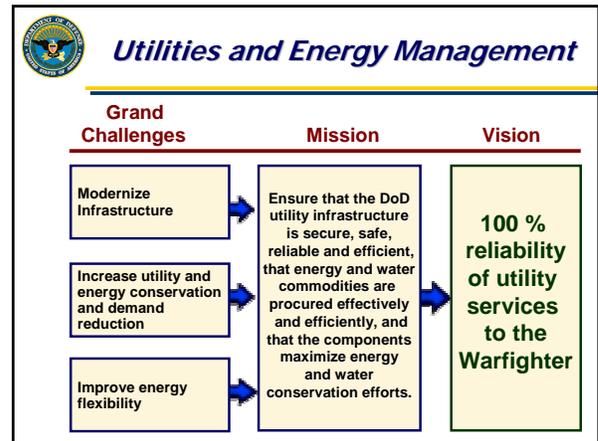
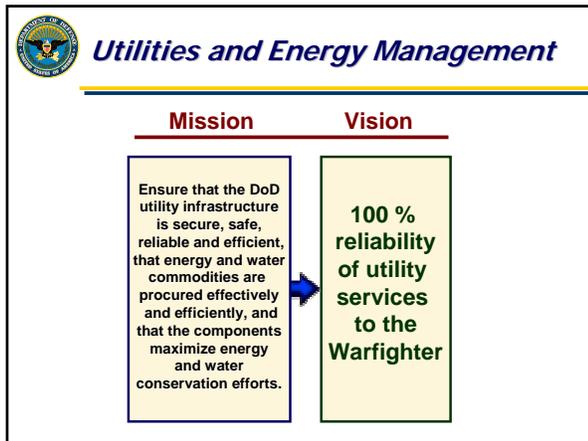


Perspectives

DoD Infrastructure

♦ Value	\$600 B
♦ Buildings and structures	621,850
♦ Square Miles	46,425





Installation Energy and Water Management Framework

Implementation strategy

- ◆ Awareness programs
- ◆ Energy efficient investments
- ◆ Energy security/flexibility
- ◆ Conservation measures
- ◆ Infrastructure modernization

Statistics

Consumption \$ 6.8 B

Vehicles/Ships	70%
Buildings	25%
Industrial	4%

By FY02 DoD had reduced building energy use by 25%, since 1985

Goals

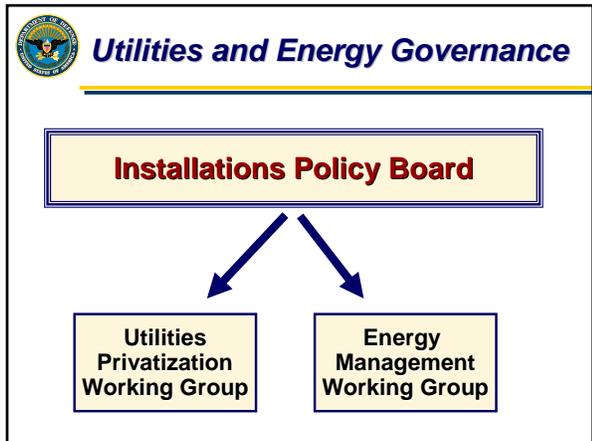
Building energy per GSF	↓ 30% by 2005; 35% by 2010
Industrial / lab energy	↓ 20% by 2005; 25% by 2010

DoD Performance

Building energy per GSF	25.4%
Industrial / lab energy	24.5%

Performance Awards

Presidential	DoD received 3 of 5 awards
FEMP Awards	DoD received 29 of 54 awards (Army 13; DON 12; AF 4)

Benchmarking for Success

GM  DoD  Disney

Best practices in energy

- ◆ Allows cooperative environment to share "best in class"
- ◆ Provides reference point for comparison of performance / lessons learned
- ◆ Facilitates process improvement

