



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable

Federal Energy Management Program

Executive Order 13423 and the Department of Energy's
TEAM Initiative



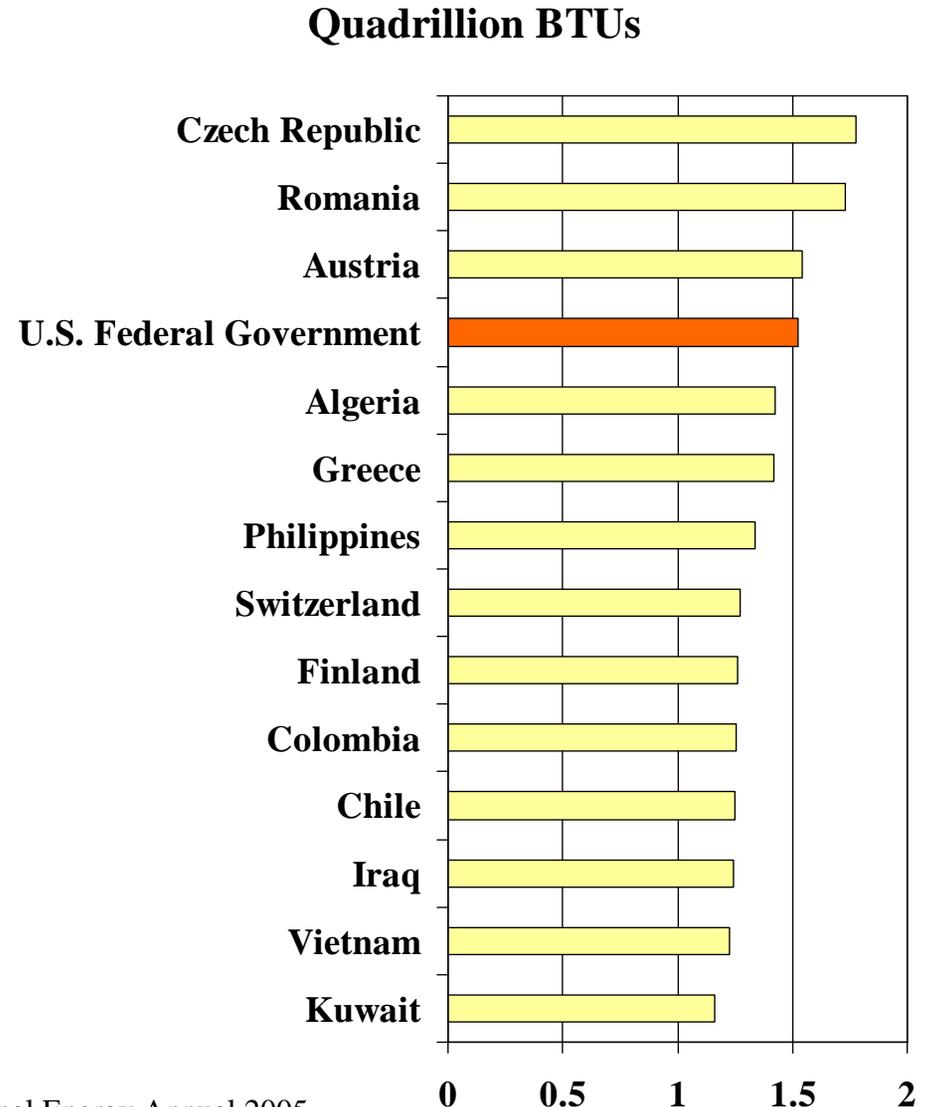
Scott Richlen, FEMP

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Opportunity to Lead by Example

- The Federal Government consumes 1.6% of the Nation's total energy, or \$14.5 billion in annual costs
- Federal energy management
 - Lead by example
 - Help transform the market
 - Demonstrate and deploy new technologies
- Requires carrots and sticks
- Need involvement of senior management



Source: Energy Information Administration International Energy Annual 2005, Table E.1 World Primary Energy Consumption and Federal energy consumption for 2006.



The Federal Energy Management Program strives to enhance energy security, environmental stewardship, and cost reduction within the federal government by:

Facilities

- Advancing energy efficiency and water conservation;
- Promoting the use of renewable energy, sustainable building design, and distributed energy resources;
- Improving utility management decisions; and

Fleets

- Promoting the advancement of alternative fuels and advance technology vehicles;
- Improving fleet efficiency measures to reduce and displace petroleum fuels in fleets; and
- Facilitating, monitoring, and evaluating progress of all covered agencies.



“The TEAM Initiative will allow the Department of Energy to be an example among the federal agencies, to serve as an energy efficiency leader for the entire federal government”

- Secretary Samuel W. Bodman, August 6, 2007



- **WHY?** Because the core mission and responsibility of the Department of Energy is to lead the nation in promoting and utilizing the best available energy management technologies and practices.
 - Federal government is the largest single energy user in the U.S. and DOE is the second largest energy consumer of all civilian federal agencies



- **WHO:** “Center of Excellence” A dedicated team comprised of procurement, engineering, legal, and project management experts.
- **WHAT:** Executable Plans. Binding agreements that ensure the agency will meet, exceed and lead in the implementation of these goals.
- **WHERE:** To begin, the top 20 DOE energy consuming sites including national labs. Thereafter, all remaining sites.
- **WHEN:** Executable agreements finalized by the end of 2008.
- **HOW :** Through the execution of an “Order of Operations” designed to optimize department resources and third party financing.



DOE will strive to meet, exceed and/or lead in the Federal implementation of Executive Order 13423

<i>Executive Order 13423 Goals</i>	<i>Meet</i>	<i>Exceed</i>	<i>Lead</i>
1. Increased Energy Efficiency	√	√	√
2. Renewable Energy Generation and Use	√	√	√
3. Petroleum Reduction/Alternative Fuel Use (Fleets)	√	√	√
4. Sustainable Building Standards	√	√	
5. Water Conservation	√		
6. Sustainable Environmental Practices in Acquisitions	√		
7. Reduction in Toxic and Hazardous Material Use/Solid Waste Diversion/Recycling	√		
8. Electronics Stewardship	√		



- **Executive Steering Committee**

- **Order of Operations**

- **Executable Plans**

- **Enhanced Processes**





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- **Executive Steering Committee**
- **Order of Operations**
- **Executable Plans**
- **Enhanced Processes**
 - **Bundling**
 - **Maximizing Contract Terms**
 - **Efficient, Streamlined Review**
 - **Centralized Project Tracking**





FEMP's Resource Matrix

<i>Executive Order 13423 Goals</i>	<i>Resources</i>
1. Increased Energy Efficiency	<i>ESPCs, UESCs</i>
2. Renewable Energy Generation and Use	<i>Site resource evaluations, ESPCs, PPAs</i>
3. Petroleum Reduction/Alternative Fuel Use (Fleets)	<i>Fleet management plans</i>
4. High Performance and Sustainable Building	<i>Audit toolkits and tracking</i>
5. Water Conservation	<i>Best management practices</i>
6. Sustainable Environmental Practices in Acquisitions	<i>Office of Health, Safety & Security</i>
7. Reduction in Toxic and Hazardous Material Use/Solid Waste Diversion/Recycling	<i>Office of Health, Safety & Security</i>
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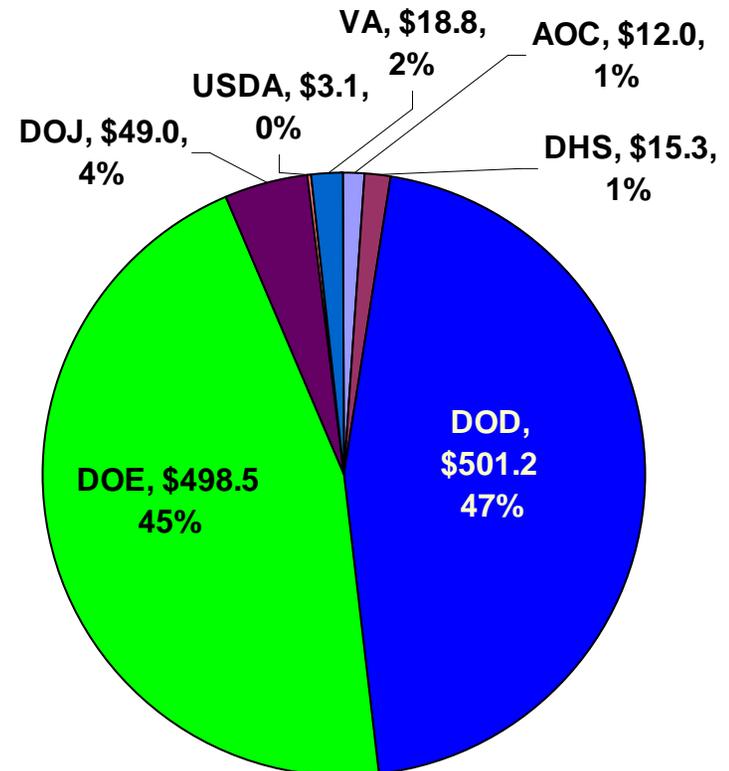


Current Proposals are Expected to Achieve:

- 20% Energy Intensity Reduction
- 4% Renewable Electricity from On-Site Sources
- Over \$400 million in energy project investments

Additional achievements

- 10% Petroleum Reduction, 2005-2007
- 47% Increase in Alternative Fuel Use, 2005-2007





Next Steps:

- Consolidate our gains
- Incorporate lessons learned
- Execute comprehensive energy management plans
- Strengthen our tools
- Rollout successes and lessons learned to other agencies





TEAM Federal Franchise Model

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