

# Water Efficiency Program Prioritization

Federal Energy Management Program

Office of Energy Efficiency and Renewable Energy

January 2009

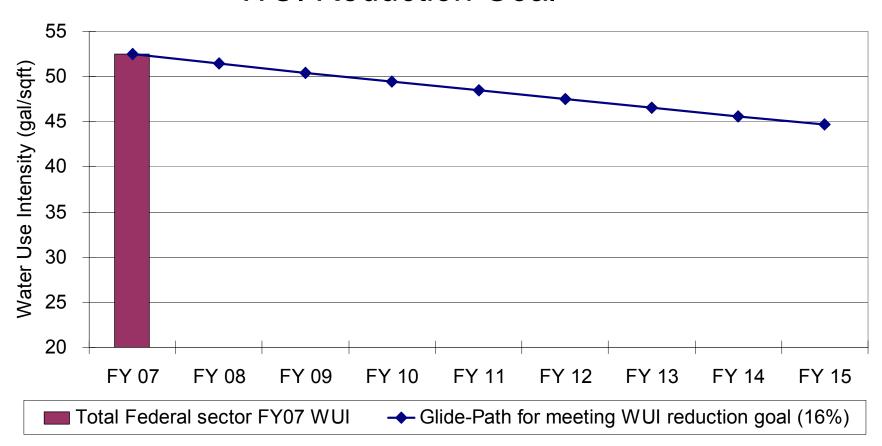
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#### The Goal – EO 13423

Beginning in 2008, Federal agencies must reduce water consumption intensity through life-effective measures, relative to the baseline of the agency's water consumption in fiscal year 2007 by 2 percent annually through the end of FY 2015 or 16 percent by the end of FY 2015.

#### Federal Sector Glide-Path to Meeting WUI Reduction Goal



#### Next Steps

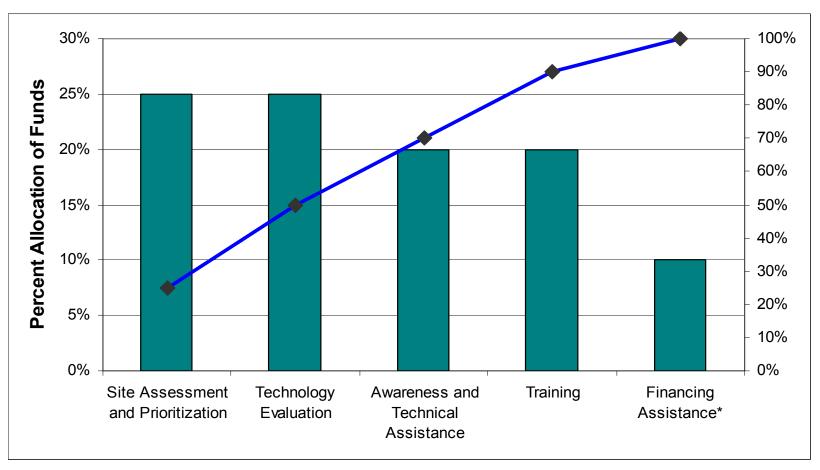
- Compile Water Data FY 2008. The baseline for water savings is FY 2007. No savings have yet been demonstrated because agencies are still reporting water data.
- Develop a long range strategic plan for the FEMP Water Efficiency Program (based upon the findings demonstrated in the following charts).
- Assessments and prioritization within major water using agencies to determine where biggest impact can be made.
- Partner with agencies to develop agency specific strategies that can be implemented.

#### Findings

- DOD is the biggest water user representing 71% of the total water use in the Federal government
- Dept of Justice has the most intense water use
- Hospitals and prisons offer the biggest potential water savings because of 24-7 operation
- Large campuses offer big potential savings with leak detection and repair and comprehensive policy approaches\*

<sup>\*</sup>Comprehensive policy approach relates to enacting overarching polices that promote water efficiency

#### **FEMP Resource Allocation**

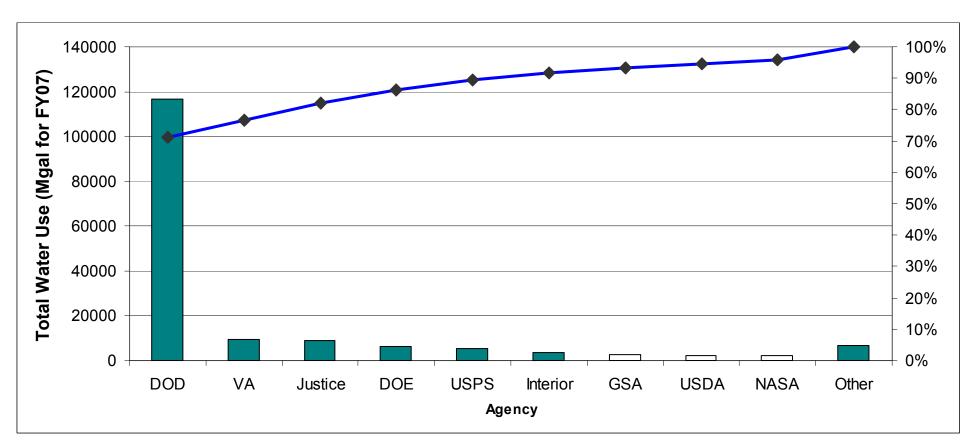


Note: This allocation represents funds being used in the first year, FY 2009 (\$100k for Inter-Agency Assistance and \$265k for DOE Specific Assistance). Future years may have a different distribution of funds.

<sup>\*</sup> Financing Assistance would offer guidance to agencies on how to find financing for water efficiency projects.

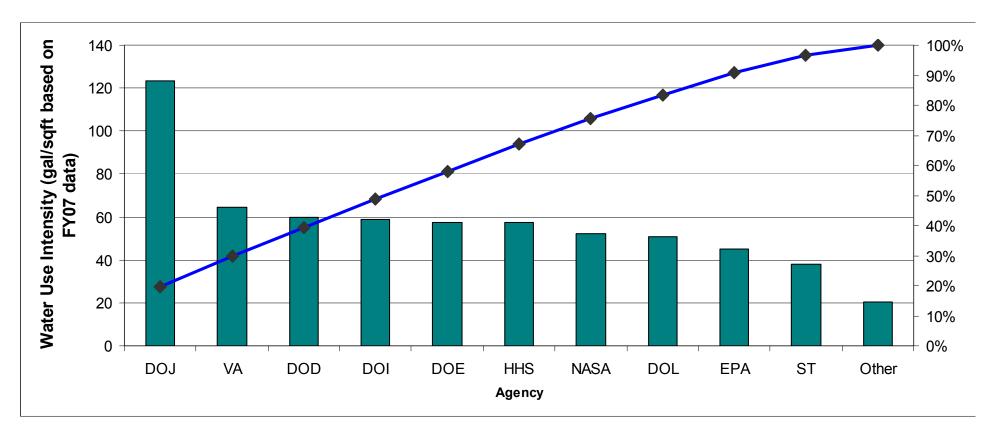


## Federal Agencies Ranked by Total Water Use (Million Gallons)





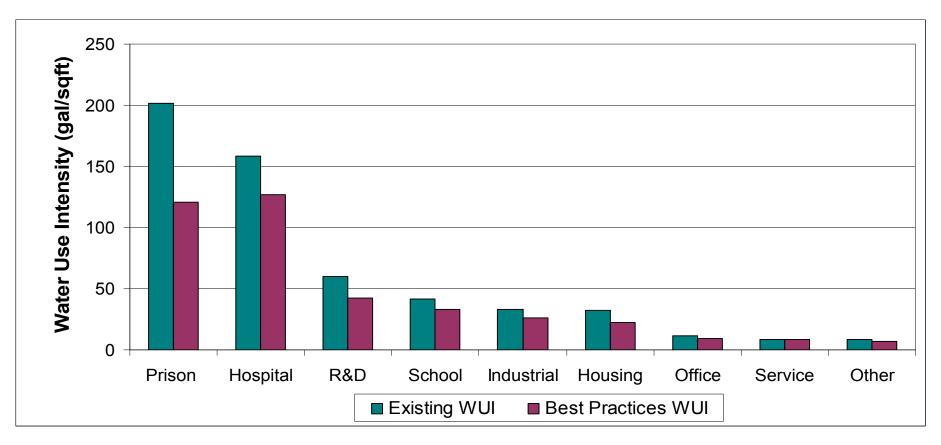
## Federal Agencies Ranked by Water Use Intensity (Gallons per Square Feet)



Note: This chart reveals that there are a significant number of agencies with intense water use, which will likely need assistance to meet the EO 13423 goal of water use intensity reduction.

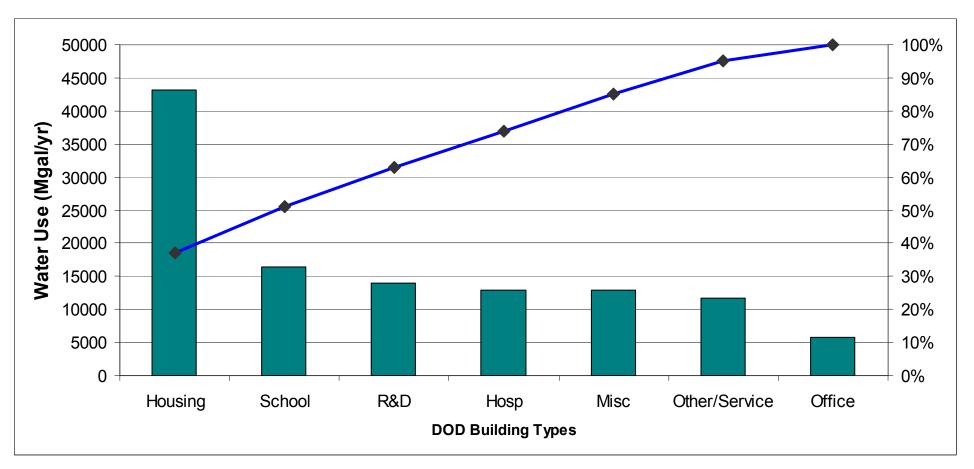


## Federal Building Types Ranked by Water Use Intensity (Gallons per Square Feet)

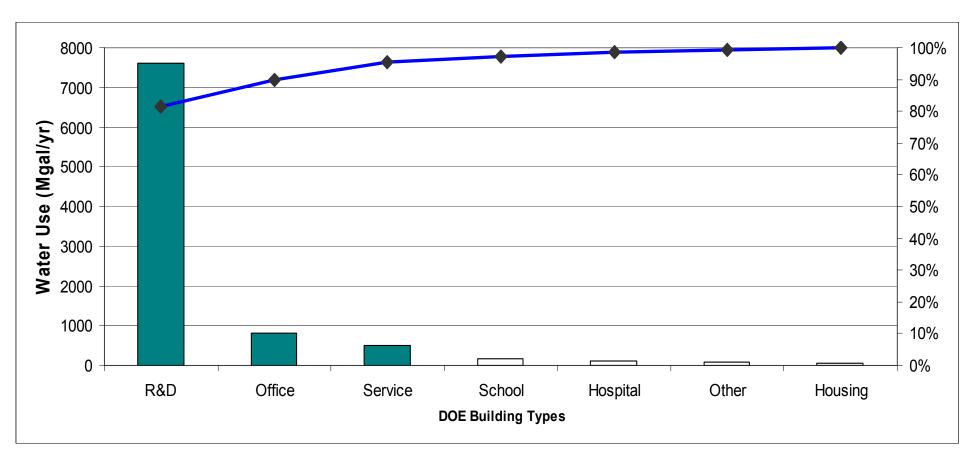


Note: This chart shows the difference in water use intensities between buildings which use standard technologies and buildings which use water efficient options.

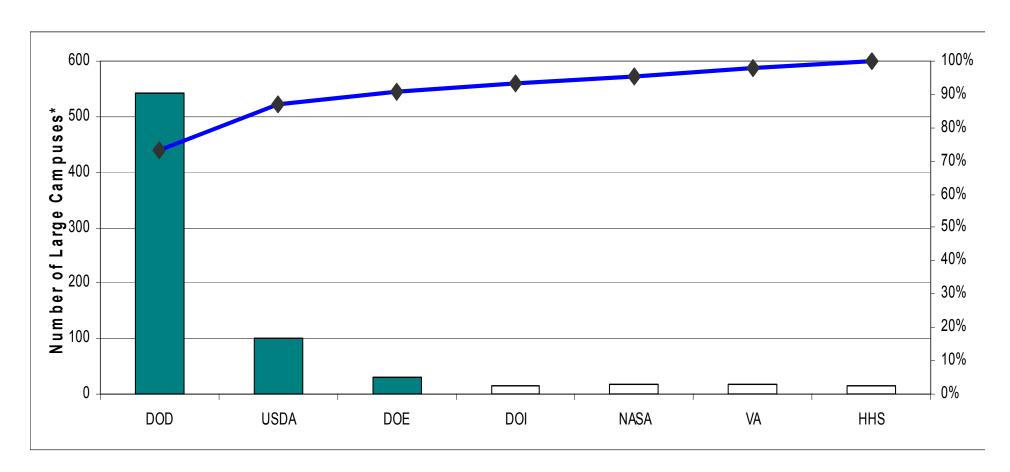
## <u>DOD</u> - Building Types Ranked by Total Water Use (Million Gallons per Year)



## <u>DOE</u> - Building Types Ranked by Total Water Use (Million Gallons per Year)



#### Agencies with Large Campuses\*



Note: Further investigation may be needed to confirm these results.

<sup>\*</sup> Large campuses are considered installations that have over 50 buildings.