

Maximizing Savings Through The Integration of Water Conservation Technologies



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Introduction

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What Makes A Good Water Project?

- *Utility Costs* – Vary from \$1 to \$12 per kgal. Average that we see is \$4.00 per kgal.
- *Age of the Facility* – Buildings constructed or remodeled after 1995 typically won't have much opportunity for upgrades.
- *Occupant Density* – Hospitals, housing, etc., obviously have more people per square feet than a library. The more people, the more they use the facilities.
- *Non Domestic Water Use* – Non-domestic use is highly dependent upon facility type.

Financial Rule of Thumb

- A general rule of thumb is that the size of the project will be approximately equal to what the facility spends annually on water.
- Based on a \$4.00 per kgal water and sewer rate the simple payback is typically in the 4 to 5 year range.

Domestic Water Conservation Measures

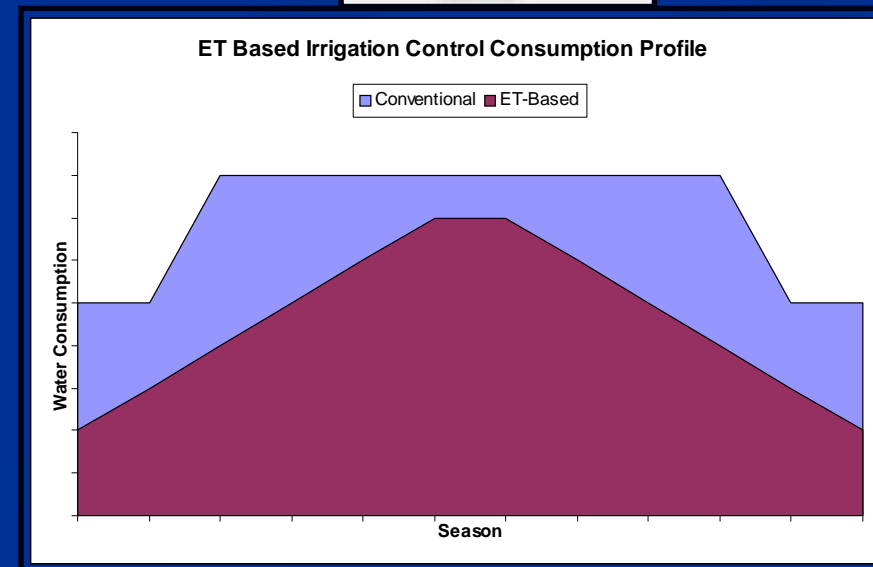
- Traditional Offerings
- Ultra Low Flow Toilets
- Waterless Urinals
- Controls
- Rebates/Incentives



Non-Domestic Water Conservation Measures

Irrigation Systems

- Alternate Water Sources
 - Gray Water
 - Well Water
- Weather-Based Controls
- Deduct Meters



Non-Domestic Water Conservation Measures

Laundry Systems

- Ozone injection systems
- Final rinse re-use systems
- Top loading residential washers



Non-Domestic Water Conservation Measures

Steam Sterilizers

- Typically excellent water saving opportunities
- Applicable to both vacuum and gravity sterilizers



Water in the news....

“Las Vegas to restrict residents' water use” ... *US Water News Online*

“Modesto Imposes Restrictions on Residential Water Use” ... *ABC Television*

“Drought could force mandatory water restrictions” ... *Journal Star, Lincoln NE*

“Lake Mead further tapped” ... *Las Vegas Sun*

“Water restrictions go into effect today” ... *Asbury Park Press*

“Water Agency Warns of Possible Restrictions Countywide System Nearing Capacity – Conservation Urged” ... *The Press Democrat*

“Water Restrictions Move Across Chattahoochee River” ... *WTVM, GA*