

**ENERGY CONSERVATION TIPS
FOR
WATER & WASTE WATER**

**TOTAL
ENERGY
CONSULTANT**

- ✓ **Recycle water, particularly for uses with less-critical quality requirements.**
- ✓ **Recycle water, especially if sewer costs are based on water consumption.**
- ✓ **Balance closed systems to minimize flows and reduce pump power requirements.**
- ✓ **Eliminate once-through cooling with water.**
- ✓ **Use the least expensive type of water that will satisfy the requirement.**
- ✓ **Fix water leaks.**
- ✓ **Test for underground water leaks. (It's easy to do over a holiday shutdown.)**
- ✓ **Check water overflow pipes for proper operating level.**
- ✓ **Automate blow down to minimize it.**
- ✓ **Provide proper tools for wash down -- especially self-closing nozzles.**
- ✓ **Install efficient irrigation.**
- ✓ **Reduce flows at water sampling stations.**
- ✓ **Eliminate continuous overflow at water tanks.**
- ✓ **Promptly repair leaking toilets and faucets.**
- ✓ **Use water restrictors on faucets, showers, etc.**
- ✓ **Use self-closing type faucets in restrooms.**
- ✓ **Use the lowest possible hot water temperature.**
- ✓ **Do not use a central heating system hot water boiler to provide service hot water during the cooling season --install a smaller, more-efficient system for the cooling season service hot water.**
- ✓ **Consider the installation of a thermal solar system for warm water.**
- ✓ **If water must be heated electrically, consider accumulation in a large insulated storage tank to minimize heating at on-peak electric rates.**
- ✓ **Use multiple, distributed, small water heaters to minimize thermal losses in large piping systems.**
- ✓ **Use freeze protection valves rather than manual bleeding of lines.**
- ✓ **Consider leased and mobile water treatment systems, especially for deionized water.**
- ✓ **Seal sumps to prevent seepage inward from necessitating extra sump pump operation.**
- ✓ **Install pretreatment to reduce TOC and BOD surcharges.**

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- ✓ **Verify the water meter readings. (You'd be amazed how long a meter reading can be estimated after the meter breaks or the meter pit fills with water!)**
- ✓ **Verify the sewer flows if the sewer bills are based on them**

