

# REDUCING WATER USE IN INDUSTRY

**Water is a precious resource. We're encouraging our industrial customers to think about reducing their water use with these simple tips. We have also included some opportunities to improve future water use which can be implemented during site shutdowns.**

## TOP TIPS

Turning off taps and hoses to prevent unnecessary water usage

Checking water meters regularly to confirm usage is at the level you would expect it to be at

Reuse non-potable water for other operations. Identify discharges that may be re-used and implement re-use practices

Reduce the amount of blowdown water from cooling towers by carefully maximizing cycles of concentration

Check chlorine demands and potential drop in chlorine residuals in process water storage tanks if there is prolonged storage due to reduced production

On wastewater plants beware of issues with underloading in case of low loading due to reduced production. Supplementary feeding using molasses, milk powder or ethanol may be required

Consider reducing the amount of water needed for non-essential activities such as landscaping

## ADDITIONAL SUGGESTIONS

If flows are very low on wastewater plants the clarifier RAS rate may need to be adjusted to control the sludge blanket level and sludge retention time in the clarifier

Operate blowers on biological wastewater plants on a DO control rather than manual speed to conserve energy

Check overflows or high levels on water production plants and process tanks

Ensure water supply systems are set to stop in line with demand (e.g. tank levels) rather than operating on a manual production setting

Reduce water pressure temporarily which will reduce energy costs

## OPPORTUNITIES

Check for leaks and repair them

Take water pumps offline to check for impeller clearances and make sure they are working efficiently

Consider the installation of a rainwater harvesting system to offset metered water costs where non potable water is used

Fit water saving devices within the works such as dual flush cisterns, spray taps, aerators, PIR controllers on urinals and high efficiency shower heads

Perform an audit to identify all water usage