

# LOS ANGELES COOLING WATER CONSERVATION

68% CAPEX Covered By Rebates, 9 Month Payback



## OVERVIEW

The cooling system at these two, 52-story office towers in Los Angeles supplies comfort cooling to 2.5 million square feet of Class A office space. If the cooling system were to fail or experience reduced functionality, the negative impact on the tenants in the building would be significant.

The cooling system consists of an eight-cell 8,000 ton cooling tower providing cooled water to HVAC chillers. Because replacing a tower of this size on the roof of the building would be cost prohibitive, protection and extending the life cycle of this tower is paramount.

## IMPLEMENTATION

Prior to Capture H<sub>2</sub>O taking over service, the cooling system was operating on a traditional liquid chemical water treatment program. This program fed a scale inhibitor, corrosion inhibitor, a non oxidizing and oxidizing biocide, and acid to control scale, corrosion and bacteria. The program was currently operating at 4 cycles of concentration on average, using a total of 16.7 million gallons of makeup and sending 4.2 million gallons of blowdown to the sewer, annually.

After meeting with management for these buildings, Capture H<sub>2</sub>O recommended the High Cycle Program to drastically cut water and chemical usage.

An added benefit for management at these buildings was the massive savings potential in the form of city-wide rebate programs. The rebate programs available from LADWP and MWD offer rebates of up to \$7.00/kgal of water savings for four years and \$0.60/kgal or water savings for ten years, respectively.

## WATER SAVINGS

The Capture H<sub>2</sub>O High Cycle Program, running at 25 Cycles of Concentration on average, reduces the annual blowdown of these towers from 4.2 million gallons to just 524 thousand gallons. This 88% reduction in water usage lead to cost savings of \$66,000 per year on water alone.



Find out how Capture H<sub>2</sub>O can help your business shift to a more sustainable, cost-effective water treatment program at [captureh2o.com](http://captureh2o.com)

## ROI

**CAPEX:**  
**\$182,500**

**Rebates:**  
**\$124,769**

**% of CAPEX covered by Rebates:**  
**68%**

**Water and Chemical Savings:**  
**\$66,000**  
**Annually**

**Payback:**  
**9 Months**