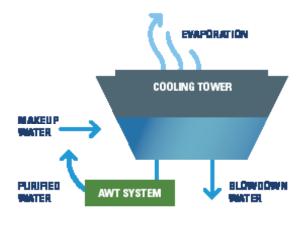
### ALTERNATIVE WATER TREATMENT FOR COOLING TOWERS

Guidance for GSA to select, operate, and maintain AWT systems

Water is the fastest growing utility cost

**INCREASE IN WATER RATES** 40% in the past 10 years for GSA1

**AWT** systems purify water in order to reuse it



On average, cooling towers use 28% of water in commercial office buildings;<sup>2</sup> traditional treatment flushes (blowdown) up to half of that water to control mineral deposits

#### **GPG** evaluated seven AWT techologies

Six of the technologies proved successful and met GSA cooling tower water standards

# **MAKEUP WATER SAVINGS**

52%-99% blowdown reduction<sup>3</sup>

## **YEAR PAYBACK**

@ \$18.41/kgal 4

### 0&M **PLANNING**

is critical. Most AWT systems are proprietary and require changes to standard 0&M practices and contracts<sup>5</sup>

#### MAINTAINING AWT SYSTEMS



Ensure local 0&M teams are part of the decision making and receive adequate training on new systems



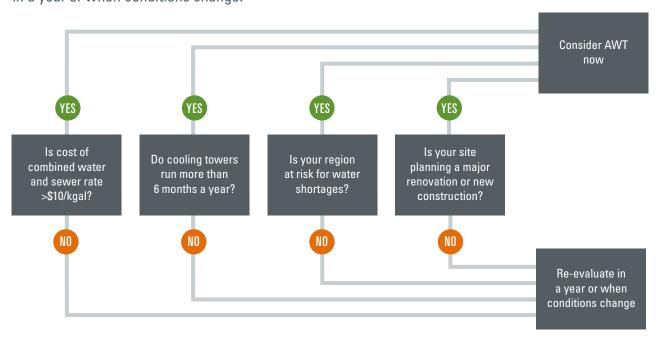
Add equipment to your computerized maintenance management system and transfer 0&M requirements when contracts change



Include maintenance in energy savings performance contracts or have the vendor or an authorized 3rd party maintain the system

#### WHEN TO CONSIDER AN AWT SYSTEM

If you answer yes to any question below, consider an AWT system now. If you answer no, reevaluate in a year or when conditions change.





DOWNLOAD THE 40-PAGE GUIDE  $\,\,^{\downarrow}$ 



Alternative Water Treatment for Cooling Towers, GSA Water Conservation Guidance, U.S. General Services Administration, July 2024, p. 5 2lbid. 3lbid., 4. 4lbid. 5lbid., Appendix A: 24.

