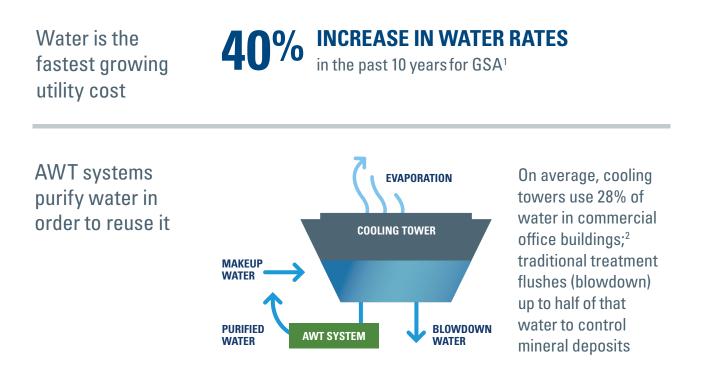
# ALTERNATIVE WATER TREATMENT FOR COOLING TOWERS

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



## GPG evaluated seven AWT techologies

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

## **15%-32%** Makeup water savings

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

**2-4** YEAR PAYBACK @ \$18.41/kgal<sup>4</sup>

## **O&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 O&M teams are part of the decision making and receive adequate training on new systems

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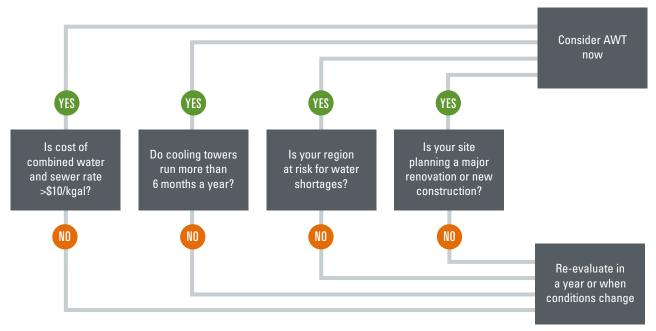
Add equipment to your computerized maintenance management system and transfer O&M requirements when contracts change



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.





<sup>1</sup>Alternative Water Treatment for Cooling Towers, GSA Water Conservation Guidance, U.S. General Services Administration, July 2024, p. 5 <sup>2</sup>Ibid. <sup>3</sup>Ibid., 4. <sup>4</sup>Ibid. <sup>5</sup>Ibid., Appendix A: 24.



The Center for Emerging Building Technologies' programs, GSA Proving Ground (GPG) and Pilot to Portfolio (P2P), enable GSA to make sound investment decisions in next-generation building technologies based on their real-world performance.