



McKenney's
Inc.

Building A Higher Standard

Rainwater & Condensate Harvesting

Reclaim
wasted water
and maximize
resources

ENGINEERING SOLUTIONS



Efficient solutions for rainwater and condensate harvesting

Right now, a rapidly rising population is competing for a limited supply of water. Because of this, the availability of water plays a key role in virtually every decision municipalities make about where and when facilities can be constructed or expanded. In some areas of the country, the cost of municipal water has doubled in recent years, and rates continue to rise in every region. This means organizations will need to reduce municipal water usage, either to manage costs or comply with mandated restrictions.

Rainwater and condensate harvesting offers a proven solution to reduce your facility's total municipal water usage. Capturing and reusing rainwater and air handling unit cooling coil condensate enables buildings to minimize utility costs, as well as reduce peak power requirements and improve the reliability of cooling by reducing its load during the hottest parts of the season, all of which increase overall energy efficiency.

McKenney's is uniquely qualified to design, build and install highly efficient rainwater and condensate harvesting systems. We have the expertise and experience necessary to provide high-quality turnkey solutions quickly, at a competitive cost.

environmental advantages

Energy Harvested rainwater and condensate harvesting lowers municipal water usage and helps reduce the total cost of ownership. These systems also save the energy that would normally be used to distribute water to your facility, reducing regional power plant emissions and your facility's carbon footprint. For example, according to the U.S. Department of Energy, for every one KWH saved, the region saves on average two gallons of water used to generate the energy—a very important water and energy relationship. Therefore, in an environmentally conscious market, these systems are an outstanding way to differentiate you from your competitors, and can also earn coveted LEED® points for both water and energy savings.

Unmatched in-house expertise

MCKENNEY'S HAS BEEN INSTALLING RAINWATER AND COOLING COIL CONDENSATE HARVESTING SYSTEMS FOR NEARLY A DECADE. We provided the first commercial system approved by the City of Atlanta in 2005 for mechanical system use. We have designed and installed a wide range of storage systems from 1,700 to 200,000 gallons, including above- and below-ground designs, and a variety of condensate systems as small as 160 gallons.

To drive innovation, we operate an experimental collection facility. Operational since 2008, this facility allows us to experiment with new technologies, methods and processes for harvesting, cleaning and distributing captured water more efficiently.

One of our sustainability engineers, a noted industry expert, is certified by ARCSA (American Rainwater Catchment Systems Association) and helped edit the Georgia Rainwater Harvesting Guidelines 2009 for Georgia's Department of Community Affairs. We also have nearly 50 LEED-certified engineers on our team who understand the critical importance of alternative water sources.

CUSTOMIZED, SUSTAINABLE TURNKEY SOLUTIONS. McKenney's provides all the services you need to analyze current facilities, then provides a turnkey solution for even the most demanding owner's requirements.

Whenever possible, we create cost/energy models with total cost of ownership (TCO) and LEED certification points in mind. We conduct a full site analysis, determining the appropriate balance of storage and usage, as well as the logistics and proper location for storing collected water. Our complete design/build capabilities allow us to provide full-scale or modular solutions, all of which are heavy duty for maximum integrity. Finally, we install controls through our Automation & Controls team to ensure proper operation.

The McKenney's difference

McKenney's is the right choice for reliable, well-designed rainwater and condensate harvesting systems because we bring a powerful combination of experience, commitment and innovation.

- ▲ **EXPERIENCE.** McKenney's rainwater and condensate harvesting systems in the metro Atlanta area include the Carver YMCA (LEED certified facility), Advanced Ed Building (LEED Gold certified building), Perkins and Will (LEED Platinum registered building), 2500 Wildwood, Overlook III (Commercial LEED and ENERGY STAR certified properties), the Southface Eco Office (LEED Platinum certified facility), a 200,000-sq.-ft. advanced regional data center and the Georgia Tech 2007 Solar Decathlon Facility (Project Icarus).
- ▲ **COMMITMENT.** We practice what we preach. The harvesting system at our corporate headquarters is part of our LEED Gold Certified Office Expansion, and is featured on the Georgia Department of Community affairs website as a case example.
- ▲ **INNOVATION.** Capturing rainwater and condensate water has many potential uses today and tomorrow, including integration with mechanical system cooling for lower peak energy costs and higher reliability during heat waves, as well as standard uses such as irrigation and toilet flushing. Solar PV panel spray misting, which increases electrical efficiency and reduces panel operating costs, is an emerging application. McKenney's works hard to make sure your facility can take advantage of all of these, providing guidance for system evaluation, selection, installation and cost considerations.

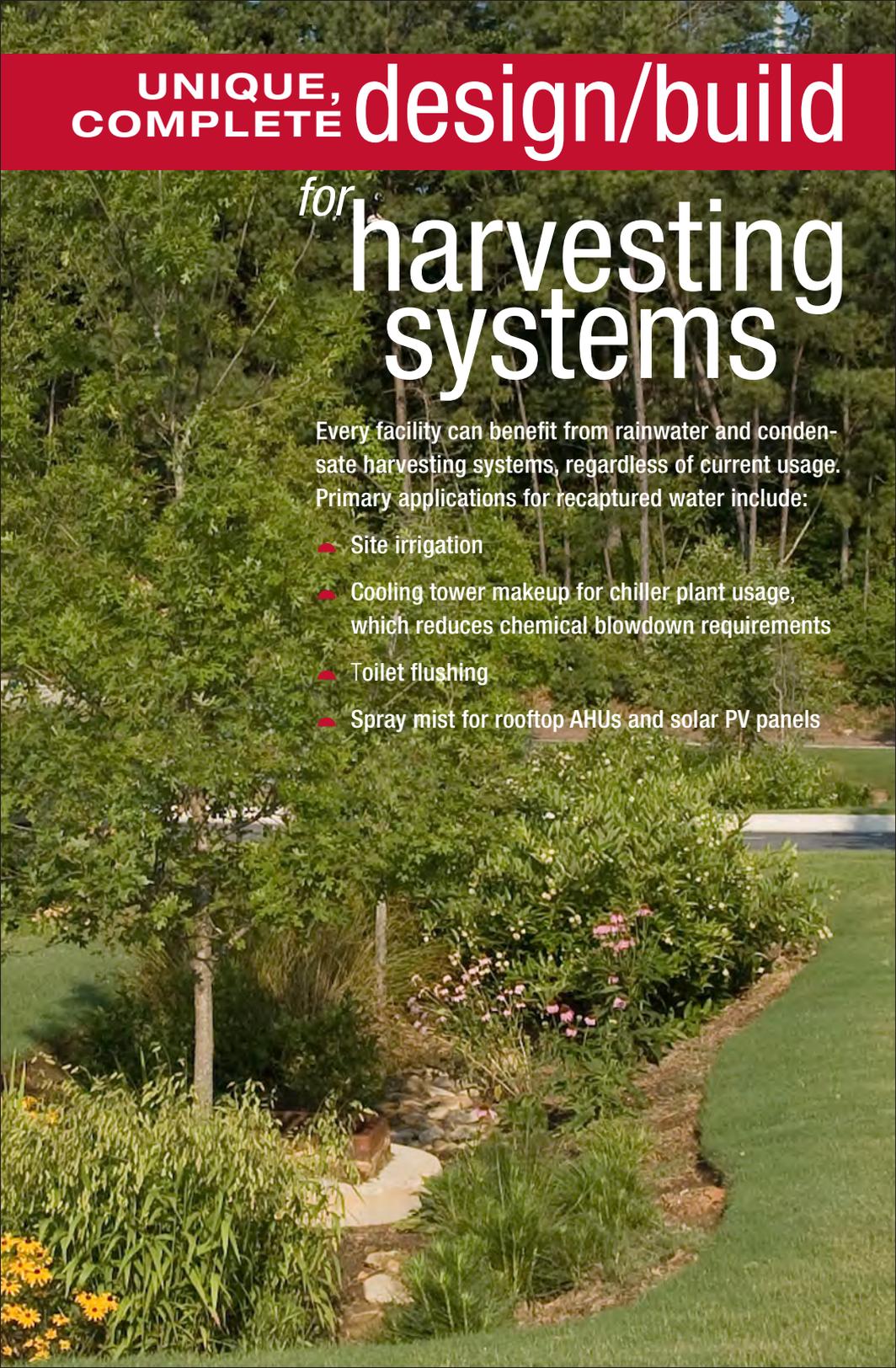


**UNIQUE,
COMPLETE** design/build

for
**harvesting
systems**

Every facility can benefit from rainwater and condensate harvesting systems, regardless of current usage. Primary applications for recaptured water include:

- Site irrigation
- Cooling tower makeup for chiller plant usage, which reduces chemical blowdown requirements
- Toilet flushing
- Spray mist for rooftop AHUs and solar PV panels



Reliable, high-efficiency solutions

As demand for water grows, one of two realities will set in: government agencies will impose restrictions, or market forces will continue to drive up prices. That means every organization needs a solid plan for reducing municipal water usage.

McKenney's provides turnkey solutions for rainwater and condensate harvesting. Let us deliver a highly efficient and reliable system that meets your needs, enhances your facility's energy efficiency and supports your sustainability goals — including LEED initiatives.

McKENNEY'S ENGINEERING SOLUTIONS

Integrated Building Systems and Services from a Trusted Provider

To learn how we can help you, contact:
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