



## ANNUAL REPORT

2023

# A NEW CHAPTER BEGINS WITH THE INAUGURAL WATER EFFICIENCY AND CONSERVATION SYMPOSIUM



Ron Burke President and CEO

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Amanda Christophe Project Coordinator In early 2022, AWE's board of directors voted in support of hosting an annual symposium starting in 2023. Our goals included providing AWE members and key partners with affordable access to peer-to-peer collaboration and learning while also elevating the importance of water efficiency across North America. This wasn't to be your traditional large-scale, conventional hall conference with vacuous rooms and one-way panel presentations. We wanted to facilitate interactive conversations and face-to-face networking. Another goal was to make the event relatively easy to access from the east and west coasts and everywhere in between, so we chose a central location - Chicago.

What resulted was the First Annual Water Efficiency and Conservation Symposium in August 2023. It was an incredible three days of professional development, relationship building, and hands-on learning opportunities for the 150+ attendees from across North America, representing water and wastewater utilities, government agencies, and business and industry partners.

The Symposium featured presentations, panels, and roundtables primarily focusing on actionable research, resources, and peer-to-peer learning. The schedule included opportunities for face-to-face discussions, including social events, breakouts during the program sessions, and designated networking time.

The Symposium's two-track program agenda covered a range of topics, including sessions such as "Future Visions for Conservation Programs: New Development & Long-term Planning," "Water Efficiency: Exploring Equitable and Effective Solutions to Address Affordability," and "State Perspectives on Water Conservation, Drought, & Climate Change."

The energy from attendees was palpable, from laughter echoing throughout Chicago's iconic Navy Pier at the Welcome Reception on night one, to the buzz of classroom sessions where participants broke into small group discussions and heated debates taking place over Poll EV on some of the most pressing issues facing water conservation practitioners.

While there are other conferences that feature water efficiency and conservation, our Symposium is the only such event exclusively on these topics and for practitioners in this space. The symposium's success marks a new chapter for AWE and reflects an increasing recognition that water efficiency, conservation, and demand reduction are crucial strategies for addressing a host of water challenges.

I want to thank everyone who helped make the Symposium happen, especially the AWE staff and board of directors, event sponsors, Planning Committee members, and presenters.

We look forward to seeing you at the 2nd Annual Water Efficiency & Conservation Symposium in Chicago on August 6-8, 2024.

Sincerely,

President and CEC

#### **EDUCATION & AWARENESS**

#### Webinars and Roundtables

Over two thousand water professionals participated in AWE virtual webinars and roundtables on topics ranging from water affordability to landscape transformation strategies. Special thanks to the <u>California Water Efficiency Partnership</u>, <u>US EPA WaterSense</u>, the <u>Water Research Foundation</u>, and all of our webinar partners for helping to make this year a success.

### The 2022 State Policy Scorecard for Water Efficiency and Sustainability

150 live attendees, 154 YouTube views

#### **Emerging Trends in Non-Functional Turf**

175 live attendees, not uploaded to YouTube

#### How to Get Involved in AWE's 2023 Research Projects

38 live attendees, 63 YouTube views

## Smart Practices to Save Water: An Evaluation of AMI-Enabled Leak Notification Programs

105 live attendees, 81 YouTube views, 81 YouTube views

#### **Planting Trees for the Future**

176 live attendees, 173 YouTube views

#### Flume Data Labs: Assessment of State Policy Impacts on Water Use

200 live attendees, 71 YouTube views

#### All of the Above: Local and National Water Affordability Strategies

71 live attendees, 98 YouTube views

## Water Research Foundation RFP for the Residential End Uses of Water Study 84 attendees, 131 YouTube views

## Bringing Water Savings to Your Community with WaterSense-Labeled Homes 96 live attendees, 95 YouTube views

## Strategies for Partnering with Landscapers to Promote Water-Efficient Practices 86 live attendees, not uploaded to YouTube

#### **POLICY ADVOCACY**

#### **ASAP Model State Legislation**

AWE collaborated with the <u>Appliance Standards Awareness Project</u> (ASAP) to update its model legislation for energy and water efficiency product standards to add requirements for WaterSense irrigation controllers. We also partnered to create a standalone water efficiency bill.

#### State Legislation Work in Arizona, Colorado, New Mexico, and Utah

Throughout 2023, AWE worked closely in tandem with our partners in Arizona, New Mexico, and Utah to advocate for water-efficient practices, policies, and products at in their respective state legislatures. In the 2023 state legislative sessions, AWE focused much of its efforts on supporting members in the Colorado River Basin. AWE supported and contributed to the New Mexico Water Conservation Alliance's efforts to pass legislation (HB 352) that would have prohibited the installation of non-functional turf starting in 2025 and limited watering of non-functional turf starting in 2030. HB 352 failed to pass out of committee by one vote, and we understand our local partners are considering their options for the future. We also monitored Governor Hobbs' Water Policy Council in Arizona and met with some of its members.

Some other recent state legislative activities that AWE monitored closely include recent efforts in Colorado and Utah to provide or increase funding for turf replacement programs. In Colorado, it was House Bill 1151, which passed in 2022, and in Utah, it was SB 188, which passed in 2023. AWE followed a bill in New Jersey on water loss auditing and control. Senate Bill 278 would require an AWWA water loss audit and validation for systems serving more than 3,300 customers.

#### DOE Standards Work for Residential Clothes Washers and Dishwashers

In 2023, AWE actively supported the Department of Energy's (DOE) proposals to strengthen residential clothes washer and dishwasher standards. We submitted comments and signed on to a consensus plan with home appliance manufacturers, consumers, and climate, energy, and water efficiency advocates, which was sent to DOE. If adopted by DOE, the proposed standards for residential clothes washers and dishwashers would save more than 2 trillion gallons of water over 30 years. This is equivalent to the amount of water 1.33 million average U.S. homes use over 30 years. These water-related savings are in addition to the overall estimated energy savings of more than 9 quadrillion Btu from the range of considered appliances.

#### POLICY ADVOCACY (CONTINUED)

#### **Submitted Comments on WaterSense Proposals**

AWE worked with our WaterSense and Water-Efficient Products Committee members to develop and submit comments supporting <u>WaterSense proposals</u> for Tank-Type Toilets and Spray Sprinkler Nozzles. Concerning a proposal for WaterSense-labeled point-of-use osmosis systems, AWE submitted comments recommending product labeling to explain that these systems use more than a gallon of water to make a gallon of filtered water.

## Collaboration with Partners Across the U.S. to Promote the Water Conservation Rebate Tax Parity Act

A top priority continues to be working with members of Congress nationwide to reintroduce and pass the Water Conservation Rebate Tax Parity Act in Congress, which would exempt water efficiency rebates from federal taxation. Energy efficiency rebates and subsidies are already tax-free, and securing the same favorable treatment for water efficiency will make rebate and incentive programs easier and more cost-effective for utilities and their customers. AWE staff met with Congressional staff and utilities, national associations, nonprofit partners, and other stakeholders in key states to help expand support.

## Urged Reclamation to Make Drought Funding Available to Urban Water Efficiency Projects

AWE has also been urging and coordinating with the <u>Bureau of Reclamation</u> to ensure a portion of the \$4 billion drought relief funding from the Inflation Reduction Act of 2022 is available for mid- and long-term municipal water efficiency projects, in addition to the temporary fallowing of farm fields. After coordinating a sign-on letter with 35 partner organizations in September 2022, AWE has continued to correspond and meet with the Bureau of Reclamation on this topic. Specifically, AWE has requested that these funds be made available for state and local non-functional turf replacement programs, legacy plumbing fixture replacement programs, and utility water loss auditing and control programs.

#### RESEARCH

#### 2022 State Policy Scorecard for Water Efficiency and Sustainability

In January, AWE released the third edition of the State Policy Scorecard, which ranked each U.S. state based on its adoption of laws and policies that advance water efficiency, conservation, sustainability, and affordability. California was the top-ranked state in the nation, followed by Texas, Arizona, Georgia, Washington, New York, Nevada, New Hampshire, Colorado, and Minnesota to round out the top ten. While some states improved since AWE's previous Scorecard was released in 2017, the analysis found little progress overall, even as droughts and other climate change impacts increasingly undermine affordable, reliable water services. The average state score was only 23 out of 89 possible points.

#### Key findings included:

- Connecticut was the only state that reported using its own funds to support customer water bill assistance
- California is the only state that requires water utilities to plan for climate change
- 18 states use their own revenues to fund water efficiency and conservation
- 16 states provide funding for water reuse.
- 13 states require rate structures that encourage water efficiency
- 19 states require coordination between local land use and water planning agencies.

The Scorecard was widely featured online and in print news stories in national, state, and local publications.

#### Water and Energy Savings Estimates for CII Landscapes Upgrades Projects

AWE collaborated with the <u>Regional Water Authority</u> (RWA, CA) to prepare the "Water and Energy Savings Estimates for CII Landscapes Upgrade Project" report. The report evaluated ten project sites from RWA's Commercial, Industrial, and Institutional (CII) Landscape Upgrades Program that received incentives to upgrade their landscape plant material, irrigation systems, and equipment, or both. The ten projects are estimated to save about 251 million gallons in total over a projected 15-year period, as well creating energy savings and avoided greenhouse gas reductions. The <u>Bonneville Environmental Foundation</u> and <u>Procter & Gamble</u> funded this project.

#### RESEARCH

(CONTINUED)

## Smart Practices to Save Water: An Evaluation of AMI-Enabled Proactive Leak Notifications

In March, "Smart Practices to Save Water: An Evaluation of AMI-enabled Proactive Leak Notification Programs" was released, which presents an analysis of four participating utilities with AMI-enabled leak notification programs in Fort Worth, TX, Sacramento, CA, Sacramento Suburban Water District, and San Francisco Public Utilities Commission. The analysis used hourly AMI data to assess whether the leak notification program resulted in statistically significant reductions in water use, mean leak formation (how often leaks occurred), and mean leak duration (how long leaks lasted) for different programs at all four utilities. The analysis found a reduction in mean leak volume per meter of 29 to 50 percent for the programs with timely notifications. The report outlines steps other utilities can replicate based on varying data availability and their leak notification program system design.

#### An Assessment of Water Affordability & Conservation Potential in Houston

This report evaluated water affordability in <u>Houston, TX</u> and the extent to which water efficiency and conservation can help families, particularly disadvantaged families, lower their water and sewer bills. The analysis in this report revealed that the most impacted households will go from paying about 13 percent of yearly income on water and sewer bills in 2019 to over 21 percent projected in 2025. AWE highlighted that water efficiency and conservation strategies can lower ongoing water use and bills and improve customer affordability. The measures assessed are estimated to achieve an average of 15 percent bill savings, though some strategies could save up to 34 percent.

#### Research Launched/Ongoing Research in 2023

In addition to publishing four research projects in 2023, AWE also began working on an exciting slate of new research projects, including the Santa Barbara Affordability Study, the Mobile Home Parks Water Efficiency Installs & Analysis, the Advanced Metering Infrastructure (AMI) Primer: The Many Uses of AMI for Water Conservation & Efficiency, the Outdoor Water Savings Research Initiative Phase (Evaluating and Optimizing Large-Scale Landscape Transformations and Irrigation Management), the Evaluating Changes in Peak Demands project, and the Long Beach Direct Install Pilot.

#### **CONVENING & ENGAGEMENT**

#### **Member Advisory Committees**

In total, the three advisory committees met 15 times, involving 233 water efficiency practitioners. Education and Outreach: Helps AWE members educate their customers and constituents about water efficiency and conservation. Water Efficiency Research: Develops a research agenda and reviews the progress of AWE-initiated research projects. WaterSense and Water-Efficient Products: Works to encourage and support the adoption of water efficiency performance criteria for water-using products and equipment, landscapes and irrigation, whole buildings, and related professional services.

#### **Creation of Collaborative Learning Cohorts**

In addition to convening our members through the advisory committees, we also offered targeted, small group learning opportunities through our collaborative learning cohorts. Throughout 2023, members and non-members gathered to discuss Cooling Towers, Conservation and Advanced Metering Infrastructure, and the Colorado River Basin.

Fifteen members participated in the Cooling Tower learning cohort, which met five times and culminated in a capstone report that will be published in 2024. The Alliance for Water Efficiency was invited to facilitate the existing Conservation and Advanced Metering Infrastructure (CAMI) group in 2023. Seventy-five people participated in this learning cohort, which met three times. In response to the ongoing Colorado River Basin (CRB) crisis, AWE created a CRB learning cohort with the 30 water providers that signed a Memorandum of Understanding committing to reducing water use in the CRB region. This cohort met seven times and focused on implementing non-functional turf programs.

#### **Engagement and Participation within the Wider Water Efficiency Community**

In addition to a number of AWE-led initiatives, our staff also played an active leadership role in a number of externally-led Project Advisory Committees, including the Water Research Foundation's Advanced Metering Infrastructure project, Pacific Institute's water affordability project funded by the Water Research Foundation, <u>Pacific Institute</u>'s National Assessment of Water Efficiency project, <u>American Water Works Association</u>'s M52 Update, and the 50 Liter Home Coalition.

## **ACKNOWLEDGEMENTS**

#### 1st Annual Water Efficiency & Conservation Symposium

The inaugural programming was held in Chicago, IL, and featured 154 attendees, 68 speakers, 21 sessions, 19 sponsors, 3 social events, 1 pre-event workshop, and 1 site visit.







#### **Member-Nominated Awards**

Since 2009, the Alliance for Water Efficiency has recognized the outstanding achievement and impact of individual water conservation practitioners through our Water Star Award.

In 2021, we began recognizing outstanding organizational members annually through a Member of the Year Award.

In 2023, numerous new awards were added, and for the first time, winners for several of our awards were chosen from nominations submitted by our members. The 2023 awardees were recognized during an Awards Reception hosted on the evening of August 2nd during AWE's Water Efficiency & Conservation Symposium.

We were thrilled to honor the hard work, leadership, and dedicated service of several individual members and member organizations through these awards.

Join us in celebrating our 2023 award winners:

- Water Star: Christine Chavez, City of Santa Fe, NM
- Up & Comer: Chris Garcia, Inland Empire Utilities Agency
- Volunteer of the Year: Jill Greiner, City of Charlottesville, VA
- Excellence in Equity: Colorado Springs Utilities
- Affiliate Member of the Year: Int'l Association of Plumbing and Mechanical Officials
- Business Member of the Year: The Scotts Miracle-Gro Company
- Water Supplier Member of the Year: Metropolitan Water District of So. Cal.
- Business Innovation: Flume Water
- Utility Innovation: San Diego County Water Authority

## **ACKNOWLEDGEMENTS**

#### **US EPA WaterSense Excellence Award**

AWE was honored to receive an <u>EPA WaterSense®</u> <u>Excellence Award</u> for Strategic Collaboration. We were recognized for our WaterSense and Water-Efficient Products Committee, partner webinar series, innovative research projects, and more. This is the seventh Excellence Award AWE has received for innovative, collaborative work. We were in great company at the awards ceremony. Of the 47 awards presented by EPA WaterSense. 33 awardees were AWE members!



#### **AWE Helps Members Earn Best Practices Designations**

The American Water Works Association <u>G-480-20 Water Conservation and Efficiency Program Operation and Management Standard</u> identifies critical elements of an effective water conservation program that water providers can adopt voluntarily. As a benefit to members, AWE verifies and acknowledges water utilities that achieve various levels of compliance with the standard.

Congratulations to <u>Elsinore Valley Municipal Water District</u> for achieving Platinum Status, <u>East Bay Municipal Utility District</u> for Gold Status, and <u>Cobb County Water System</u> for Silver Status.

## WELCOME NEW STAFF



#### **WELCOME AMANDA**

Amanda Christophe joined the staff in August 2023 as a Project Coordinator. Through this role, she is focused on building capacity for water conservation and efficiency efforts through project management, community outreach, and research.

Amanda's interest in water grew in her previous role as a CivicSpark AmeriCorps Fellow with the Central Coast Regional Water Quality Control Board, where she implemented climate adaptation and mitigation projects for wastewater treatment facilities across the region to build a more resilient water supply against climate impacts.

Amanda graduated Summa Cum Laude from Indiana University, Bloomington, with a Bachelor of Science in Public Affairs focusing on environmental management, political science, and economics.

## WELCOME AND THANK YOU

#### WELCOME NEW AWE BOARD MEMBER

In 2023, we welcomed one new member to our Board of Directors!

A sincere thank you to **Drew Blackwell** (Director of Water Efficiency, Cavanaugh & Associates, P.A.) for joining us. We are grateful to have you!

#### THANKS TO DEPARTING AWE BOARD MEMBERS

AWE would like to recognize and thank **Ron Voglewede** and **Rob Zimmerman** for their many years of service on the Board of Directors. Your leadership and service to the Alliance are greatly appreciated.

#### THANK YOU TO OUR 2023 BOARD OF DIRECTORS

**Board Officers:** 

Ron Voglewede (Chair)

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Karen Guz (Vice-Chair) San Antonio Water System

**Bill McDonnell** (Treasurer)

Metropolitan Water District of Southern California

Jennifer Walker (Secretary) National Wildlife Federation

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Director, CalWEP Board / Regional Water Authority

Rob Zimmerman

Reyes Coca-Cola Bottling

## CONTRIBUTORS

The Board of Directors, staff, and membership would like to **give special thanks to** those individuals, organizations, and foundations who contributed additional financial resources to AWE in 2023. Without these contributions, we would not have been able to meet our financial goals and continue our mission of promoting the efficient and sustainable use of water.

- Amy Talbot
- Anne Carroll
- Arizona Municipal Water Users Association
- Austin Water Utility
- Bernalillo County Public Works
- Bill McDonnell
- CA Water Efficiency Partnership
- California Water Service Company
- Cavanaugh & Associates, P.A.
- Centennial Water & Sanitation District
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- Colorado Springs Utilities
- Colorado Water
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- Denver Water
- Drew Blackwell
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- Eastern Municipal Water District
- Energy Solutions
- Flume, Inc.
- Hunter Industries Inc.
- International Association of Plumbing and Mechanical Officials
- Jennifer Walker
- Julie Hernandez-Tomlin
- Jurupa Community Services
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- Karen Guz
- Kohler Co.
- LIXIL/American Standard Brands
- Lowell Lampen
- Massachusetts Department of Conservation and Recreation
- Metropolitan North Georgia
   Water Planning
- Metropolitan Water District of So. Calif.
- Municipal Water District of Orange County
- Paula Paciorek
- Pete DeMarco
- Provo City

- Rachel Austin-DeBruin
- Rachio, Inc.
- Radian Developers
- Rain Bird Corporation
- Regional Water Authority
- Ric Miles
- Rob Zimmerman
- Ron Voglewede
- San Antonio Water System
- San Diego County Water Authority
- Santa Barbara County Water Agency
- Santa Clarita Valley Water Agency
- Sonoma Water
- Southern California Gas Company
- Southern Nevada Water Authority
- Tempe Municipal Utilities Department
- The Scotts Miracle-Gro Company
- The Texas Water Company
- Tualatin Valley Water District
- Turfgrass Water Conservation Alliance
- Valley Water District
- Whirlpool Corporation
- Wioleta Olczak
- Yoppify

And thank you to those anonymous contributors who gave via the AmazonSmile, Benevity Community Impact Fund, Giving Assistant, Network for Good, PayPal Giving Fund, and other similar services.

#### As of December 31, 2023

A&N Technical Services. Inc.

Acton Water District

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Alameda County Water District

Alliance to Save Energy

American Rainwater Catchment Systems

Association

American Rivers

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Arapahoe County Water and Wastewater

Authority

Arizona Department of Water Resources

Arizona Municipal Water Users Association

Arlington Water Utilities

Association of Water Board Directors

Atascadero Mutual Water Company

Athens-Clarke County Public Utilities Dept.

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**Azure Fluidity Systems** 

Bay Area Water Supply & Conservation Agency

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Bernalillo County Public Works

Birch Bay Water & Sewer District

Bottom Line Utility Solutions, Inc.

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Central Arkansas Water

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Lone Star Chapter, Sierra Club

Lone Star Groundwater Conservation District

Long Beach Water

Los Angeles County Waterworks District Los Angeles Department of Water & Power Los Osos Community Services District

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Madison Water Utility

MaP Testing

MARC Strategic Solutions
Marin Municipal Water District
Marina Coast Water District

MA Dept. of Conservation & Recreation Massachusetts Water Resources Authority

Maureen Erbeznik & Associates McHenry County Government Medford Water Commission

Melbourne Water

Meridian Service Metropolitan District

Mesa Water District

Metro. North Georgia Water Planning District

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Niagara Conservation Corporation Nipomo Community Services District North Coast County Water District North Fort Bend Water Authority

North Marin Water District

North Texas Municipal Water District

Northern Water

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Ohio Department of Natural Resources Ontario Municipal Utilities Company

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Otay Water District Pacific Institute

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Salt Lake City, Department of Public Utilities

San Antonio Water System

San Bernardino Valley Municipal Water District

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San Dieguito Water District

San Francisco Public Utilities Commission

San Gabriel Valley Water Company

San Jacinto River Authority San Jose Water Company

Santa Ana Watershed Project Authority Santa Barbara County Water Agency Santa Clarita Valley Water Agency

Santa Fe Irrigation District Santa Margarita Water District

Seattle Public Utilities Sensor Industries Sligo Creek Resources Solano County Water Agency

Sonoma Water

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South Florida Water Management District South Metro Water Supply Authority South Tahoe Public Utility District Southern Alberta Institute of Technology

Southern California Gas Company Southern Nevada Water Authority

Southwest Florida Water Management District St. Johns River Water Management District

Stanford University STEMhero, LLC

Stonegate Village Metropolitan District

Suburban Water Systems
Sustainnovation, LLC

Suwannee River Water Management District

Sweetwater Authority Synergy Companies

T&S Brass and Bronze Works, Inc.

#### Continued - As of December 31, 2023

Tacoma Water

Tahoe City Public Utility District

Tampa Bay Water

Tampa Water Department

Tarrant Regional Water District

Tempe Municipal Utilities Department

Texas Commission on Environmental Quality

Texas Water Company Texas Water Foundation

The Irrigation Association

The Meadows Ctr. for Water & the Environment

The Smart Water Networks Forum

The Water Council

Three Valleys Municipal Water District

Toho Water Authority

TOTO USA

Town of Cary, NC

Town of Clarkdale, AZ

Town of Marana, AZ

Town of Okotoks, Alberta, Canada

Town of Oro Valley, AZ

Town of Windsor, CA Town of Windsor, CO

Trabuco Canyon Water District

Track I.O. Technologies

TRC Companies- Water Program Division

Tualatin Valley Water District

Tucson Water

Turfgrass Water Conservation Alliance

U.S. Climate Change Network

U.S. Water Alliance

Upper San Gabriel Valley MWD

Upper Trinity Regional Water District

**USBR Lower Colorado Region** 

Utah Water Conservation Forum

Vallecitos Water District

Valley Center Municipal Water District

Valley County Water District

Valley of the Moon Water District

Valley Water District

Ventura County Water Works District #8

Ventura Water

Veolia Water New York

VertexOne

Walnut Valley Water District

Washington County Water Conservancy District

Water - Use It Wisely

Water and Wastewater Authority of Wilson

Water Demand Management

Water Efficient Garden

Water Forum

Water Management, Inc.

Water Replenishment District of Southern

California

Water Services Association of Australia

Water Systems Consulting, Inc.

WateReuse Association

Watershed, LLC

Waukesha Water Utility

Webers Water Conservation

West Basin Municipal Water District

West Harris County Regional Water Authority

West Valley Water District

Western Municipal Water District

Western Policy Research

Whirlpool Corporation

Winter Haven Water

Wisconsin Department of Natural Resources

Wisconsin Section American Water Works

Association

Withlacoochee Regional Water Supply Authority

WSA Marketing

Yoppify

Yucaipa Valley Water District

Zone 7 Water Agency

## **FINANCES**

#### **REVENUE**

 Functional
 \$689,259

 Grant
 \$133,140

 Special Projects
 \$585,561

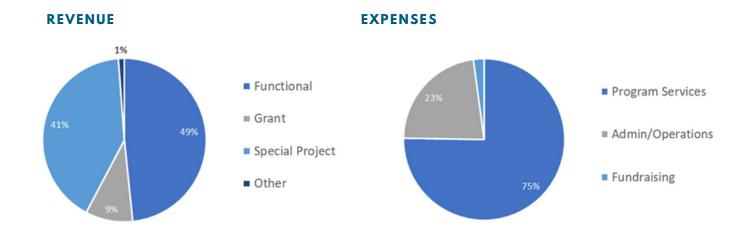
 Other
 \$16,755

\$1,424,715

#### **EXPENSES**

Program Services \$841,847
Administrative/Operations \$252,856
Fundraising \$23,822

\$1,118,525



NET ASSETS \$306,190



## Alliance for Water Efficiency

Chicago, Illinois

773-360-5100 | contact@a4we.org www.allianceforwaterefficiency.org

