

# Alliance for Water Efficiency

## Water Efficiency Research Committee Project List



- (1) **Project Ideas** - Research needs that have been identified by research committee members. Voted on by committee to be included on list as an idea.
- (2) **Proposed Projects** - Project ideas that have been proposed by a member of the research committee to be developed into an active project.
- (3) **Active Projects** - Projects that are underway, or the committee is actively soliciting for funding. At minimum these projects need a draft scope of work or RFP.
- (4) **Completed Projects** - Projects completed and resources available.

### Project Ideas

- Evaporative Cooling HVAC Systems
- Ice Cream Soft-Serve Machines
- The Impact of Lower Water Demands on Sewers
- Residential dishwasher water consumption compared to hand washing
- Irrigation Meters
- Plumbing Efficiency Research Coalition - High-Efficiency Urinals Field Study

### Proposed Projects

| Name   | Description   | Notes                                      | Links |
|--|---|--|-------|
| <b>Evaluation, Measurement and Verification (EM&amp;V) Protocols</b> | This project will generate a catalogue of existing EM&V protocols and pursue development where needed. The committee identified a need for a standardized approach to measure utility incentive programs. | Sub-committee exploring project idea       | TBD   |
| <b>Predictive Analysis</b>   | A socio-behavioral study to explore methods to predict customer response to utility program offerings based on household characteristics and other available data.  | Currently looking for participants/funders | TBD   |

### Active Projects

| Name  | Description   | Notes                                     | Links                       |
|---|---|---|-----------------------------|
| <b>AWE Outdoor Water Saving Research Initiative Phase 2</b> | Research that will build on the findings of Phase 1, which identified research needs regarding outdoor water savings and costs.   | Nearing Finalization and will Launch 2019 | <a href="#">AWE Website</a> |
| <b>AWE Cooling Technologies Research Project</b>            | The purpose of this study is to gain foundational knowledge needed to create effective, targeted, and appealing incentive and outreach programs to achieve greater efficiency in cooling systems. | Lab selected, Contracting Underway        | <a href="#">AWE Website</a> |

### Completed Projects

| Name  | Description  | Notes                               | Links                       |
|---|--|-------------------------------------|-----------------------------|
| <b>Evaluation of the Impact of Water Conservation on Water Bills in Los Angeles, CA</b>             | Customer bills are nearly 27 percent lower today than they would have been without the department's efficient rates and conservation efforts.                  | Complete 08/2018<br>Webinar 09/2018 | <a href="#">AWE Website</a> |
| <b>Updated Analysis of Water Efficiency to Jobs and the Economy</b>                                 | An update to the 2008 report on opportunity to stimulate the economy through water efficiency oriented jobs.   | Complete 12/2017<br>Webinar 12/2017 | <a href="#">AWE Website</a> |
| <b>Water Savings and Financial Benefits Associated with Single-Family Package Graywater Systems</b> | Includes easy-to-follow steps for determining the cost-benefit ratio used to justify inclusion or exclusion of graywater systems in utility program offerings. | Complete 02/2017<br>Webinar 02/2017 | <a href="#">AWE Website</a> |
| <b>Dipper Well Replacement Field Evaluation Report</b>  | MWD's Innovation Conservation Program awarded funds to a lab in Northern California to test dipper wells.  | Complete 11/2017                    | <a href="#">Report</a>      |
| <b>AWE Commercial Kitchens Water Use Efficiency and Best Practices Guide</b>                        | A best practices guide for commercial kitchen industry members. Includes an action plan, case studies, and examples of utility programs.                       | Complete 03/2017<br>Webinar 05/2017 | <a href="#">AWE Website</a> |

The purpose of this list is to pool collective research needs and funding resources to initiate important water efficiency research, as well as to identify current research projects AWE and/or its research committee are involved in. Please contact **Bill Christiansen (bill@a4we.org or 773-360-5100)** if you are interested in helping support any of the projects on this list.

*\*Last updated December 2018*