

**Project Status: A2 Water Conservation Research Grants (As of April 2019)**

<b>Grantee/Community Partner</b>	<b>Project Name</b>	<b>Description of Project</b>	<b>Amount Awarded</b>	<b>Year &amp; Type</b>	<b>Status</b>	<b>Measurable Outcomes</b>
City of Palo Alto	Business Water Use Reports		\$45,000	FY 14 Grant	Cancelled	
City of Palo Alto	Real-Time Water Use Monitoring		\$30,000	FY 14 Grant	Cancelled	
Our City Forest	Innovative Nursery Irrigation		\$30,000	FY 14 Grant	Cancelled	
Bevilacqua-Knight Inc. (BKI)	Employee Rewards for Water and Energy Savings Program	Project included the piloting of BKI's Employee Rewards for Energy Savings Program with two Employer Partners in Santa Clara County. The Program used BKI's water and energy Action Plan web application to provide employees a customized action plan for no and low cost water and energy saving opportunities in their homes.	\$50,000	FY 15 Grant	Completed June 2017	<ul style="list-style-type: none"> <li>• 3 large scale SCC businesses took part in the program including VMWare, eBay, and BKI</li> <li>• 431 total participants took part in the program</li> <li>• Of those 239 (55%) participants were actively engaged</li> <li>• Between the 3 orgs taking part in the program, over 1.3 million gallons of water were saved</li> </ul>
San Jose Water Company	Advanced Metering Infrastructure (AMI) Residential Pilot Program	San Jose Water Company (SJWC) proposes a research project to evaluate the water savings potential from using the new class of advanced water meters for single family residential (SFR) customers. SJWC proposes to install new solid state water meters such as the ultrasonic E-Series meter from Badger Meter Inc.	\$50,000	FY 15 Grant	Extended	

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		(Badger) and Sensus Iperl for SFR customers in San Jose.				
San Jose Water Company	Advanced Metering Residential Pilot Program	The objective of this research project is to evaluate two AMI systems to determine whether the data provided to the customer from the system results in water conservation savings. The hypothesis is that having access to real time information about water usage and potential leaks will drive customer behavior changes to reduce consumption and to fix leaks, resulting in overall water savings.	\$50,000	FY 15 Grant	Extended	
City of Morgan Hill	Experimental Turf Irrigation Technology Evaluation	In February 2015, the Santa Clara Valley Water District awarded a grant to the City of Morgan Hill under the Safe, Clean Water Priority A Grant Program. This grant provided funding of \$48,500 to support the Experimental Turf Irrigation Technology Evaluation at the Morgan Hill Aquatics Center. This research project focuses on two turf areas measuring roughly 12,000 square feet within the Morgan Hill Aquatics Center.	\$48,500	FY 15 Grant	Completed December 2017	<ul style="list-style-type: none"> <li>• Initial analysis determined that the mean weekly water use per sqft of turf was 0.413 gallons for park locations and 0.233 gallons for the KISSS Locations- This shows a 43.6% water savings.</li> <li>• A secondary water use analysis, with increased watering schedules, was conducted. The KISSS system now used a mean of 0.467 gallons of water per sqft of turf each week compared to traditional irrigation, which uses 0.413 gallons of water per sqft of turf each week- This increase caused KISSS system to use 13.1% more water per week than that of traditional irrigation in Morgan Hill.</li> <li>• Overall Finding and Recommendation: While it is possible that the KISSS system may conserve water in some applications, that was not the experience of the City in this test.</li> </ul>
Deal Closet LLC DBA Bay Area Fresh	Low Cost Hydroponics for Cost Effective	The project judged the efficacy of using farm wastewater for commercial growth of leafy	\$25,000	FY 15 Grant	Completed June 2017	<ul style="list-style-type: none"> <li>• Kratky Hydroponics method used less water than traditional growing techniques as demonstrated by growing basil- Kratky: 33.3432 liters/kg v. Traditional: 130 liters/kg</li> </ul>

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	Growth of Leafy Vegetables	vegetable crops using a method that almost completely consumes the water.				<ul style="list-style-type: none"> <li>Determined leafy vegetables grown using hydroponics is 10 times more water efficient than field grown vegetables</li> </ul>
City of Mountain View	Advanced Metering Infrastructure Feasibility Study and Pilot	The City of Mountain View's project aims to indentify the best AMI technology for their constituents	\$50,000	FY 16 Grant	In progress	
Purissima Hills Water District	Residential Advanced Metering Program	Purissima Hills Water District tested the efficacy of AMI (Advance Metering Infrastructure) in reducing water use amongst their customers.	\$50,000	FY 16 Grant	Completed June 2018	<ul style="list-style-type: none"> <li>Water savings of 46,623 CCF of measurable water between the Beacon and Orion meters</li> <li>2,171 total customers took part in the study</li> </ul>
Velotron LLC	Micro Streams Faucet Adapter	Using its pore-microarray technology, Velotron developed a residential water saving faucet adapter that utilized 0.1 Gallons Per Minute (GPM), which is about 13 times better than the average consumed flow rate of 1.34 GPM.	\$30,000	FY 16 Grant	Completed June 2018	<ul style="list-style-type: none"> <li>Velotron water saving faucet adapter that utilized 0.1 gallons per minute (GPM), which is 13 times better than the average consumed flow rate of 1.34 GMP</li> <li>The potential water savings from the use of the faucet can be up to 97% compared to the average water consumption rates</li> </ul>
Fisher Nickel Inc.	Dipper Well Replacement	The project measured existing dipper well(s) water use and verify the savings potential through a replacement with best available technologies in a real-world food service setting.	\$37,500	FY 17 Grant	In progress	
Ecology Action	Every Drop Counts- Investigation of Water Savings	Partner with residential, commercial, and institutional property owners to construct and monitor water use and	\$49,940	FY 17 Grant	In progress	

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	from Indoor, Non-Potable Rainwater Harvesting System	water quality of rooftop rainwater harvesting systems for indoor, non-potable uses such as toilet flushing and clothes washing.				
Purissima Hills Water District	Residential Advanced Metering Program	Purchase and install 600 advanced metering devices to demonstrate that Advanced Metering Infrastructure (AMI) is an efficient tool to achieve sustained water savings in Purissima Hills Water District (PHWD) service area. This follow-on program will provide the funds to substantially complete the AMI program throughout the PHWD system.	\$50,000	FY 18 Grant	In progress	
Water Now Alliance	Beyond Leak Detection: Evaluating Water Conservation and Leak Notification benefits of "Smart Home" Devices	The purpose of this pilot study is to characterize the typical water savings – both from leak detection and water conservation behavior – that household experience following installation of a next-generation leak detection device. The study will evaluate two devices found to have design features well-suited to encouraging water conservation.	\$50,000	FY 18 Grant	In progress	
PS Creations LLC	PlateScrape – pre-rinse basin for commercial dishwashing	The PlateScrape is a device built to pre-sanitize plates more efficiently and is estimated to use over 75% less	\$30,192	FY 18 Grant	In progress	

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		water than current spray off methods. The goal of the project is to pilot test the new technology to determine water and/or energy savings.				
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