



## The 2015 Innovative Conservation Program awarded \$560,000 to ten competitively selected projects.

### **Frontier Energy, Inc. – Dipper wells replacement study**

Evaluation of water and energy savings potential of replacing dipper wells in restaurants and ice cream shops with more efficient technologies. Analysis will normalize water and energy use to metrics including site square footage, operating hours, number of seats, and any other appropriate metrics.

### **Frontier Energy, Inc. – Pre-rinse operations in commercial kitchens**

Evaluation of water and energy use of pre-rinse operations in commercial kitchens including the use of scrapers, troughs, hand scraping, disposers, pulpers, hose use or a combination of several practices. Monitoring will include analysis of staff operations to identify opportunities to reduce waste.

### **Cal Poly Pomona – Solar decentralized graywater treatment unit**

Development of a low-cost, robust, decentralized, and solar-driven graywater treatment unit for non-potable use for single-family residential dwellings.

### **Cal State Long Beach – Effective water reuse in cooling tower systems**

Evaluation of cooling tower wastewater treatment by ion exchange. Cost analysis on water savings from reuse of cooled water will also be performed.

### **Watershed Conservation Authority – Cocoon technology for California native trees and shrubs**

Evaluate the water savings achieved using the Cocoon technology in the establishment of southern California native trees and shrubs.

### **University of Arizona – Landscape drip schedule app for the southwest**

Enhance user options and improve flexibility of a landscape drip schedule app (<http://cals.arizona.edu/dripirrigation>).

### **Cal State Fullerton – Measuring sap flow in avocado trees to reduce irrigation**

Evaluate water savings using sap flow measurement to establish the actual water needs of 4-year-old Hass avocado trees.

**Biolargo – Wastewater reuse in food industry**

Evaluate disinfection and decontamination capabilities of advanced oxidation reactor for water reuse in poultry processing plant.

**APANA – Data driven cooling tower optimization study**

Evaluate water savings using prescriptive analytics for cooling towers.

**EyeOn18 – Drone imagery utilization in golf courses**

Investigate the use of drones to optimize irrigation management practices in golf courses.