

Water Conservation Partnerships:

PG&E Test Program Results and Future Coordination Program Plans

**LIOB Water and Climate Change Subcommittee
8/23/18**



Together, Building
a Better California



Overview

1. Drivers of Collaborative Solutions
2. ESA Energy Water Conservation Plan
3. ESA Test Program
4. Future ESA Water Coordination Program Plans



Drivers of Collaborative Solutions

1. R.13-12-011 Water Energy Nexus

- established policies to promote a partnership framework between energy and water utilities to promote energy-water nexus programs

2. AB 401, Dodd Low-Income Water Rate Assistance Program

- Sought cost-effective methods of offering assistance to low-income water customers including installation of water conservation devices and leak repair

3. Governor Brown: Make Conservation a Way of Life



ESA Energy Water Conservation Plan

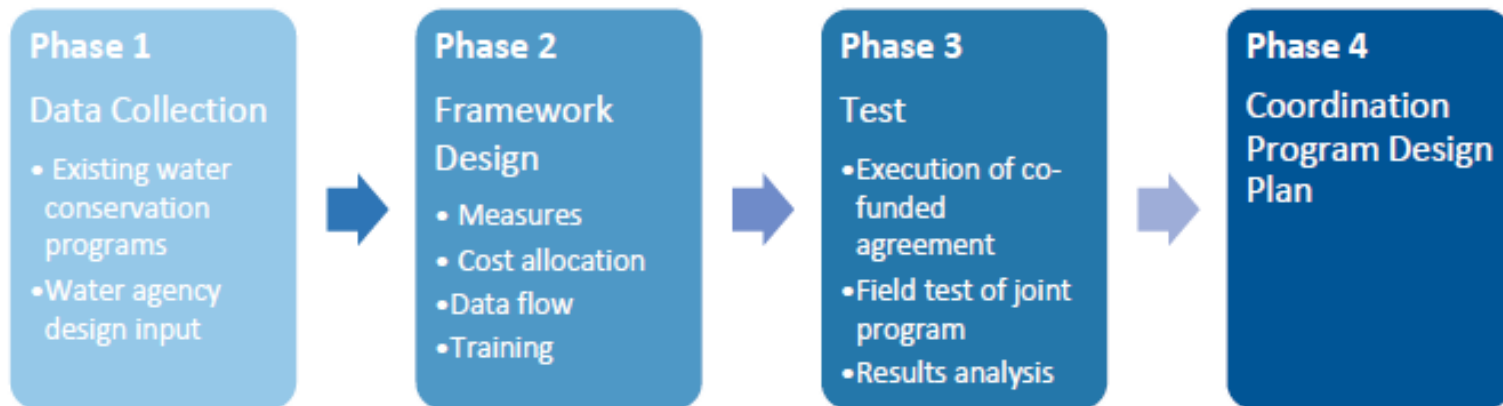
Scope:

In collaboration with water utilities and other stakeholders to develop a strategic leveraging plan that will provide for the integration of existing water conservation program offerings with the ESA Program offerings.





ESA Energy Water Conservation Plan





ESA Test Program

Program Design Basics:



Cafeteria style



Mix of interior and exterior conservation



Customer data sharing agreement



Referral to existing water agency programs



ESA Test Program

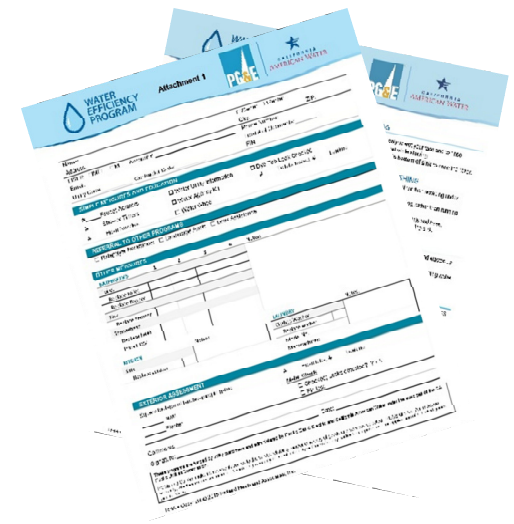
Approach: Cafeteria-style menu of options:

Service	Test	
	PG&E	Water Agency
Interior Water Use Assessment		
Visual inspection	50%	50%
Toilet dye tab leak test		
Exterior Water Use Assessment		
Visual inspection	50%	50%
Water meter leak test		
Water Conservation Education	50%	50%
Give aways (hose nozzle, shower timer)		100%
Toilet Tank Efficiency Kit*		
Referrals (landscape, toilet replacement)		100%
Cold Water Measures		
Toilets		100%
Flappers		
Hot Water Measures		
Faucet aerators		
Low-flow shower heads		
Thermostatic shower valves	100% if PG&E heats water	100% if PG&E does not heat water



California American Water

- Sacramento and Monterey/Salinas areas
- Services:
 - Internal water audit
 - External water audit
 - Water conservation education
- Water measures:
 - Toilet retrofits
 - Flappers
 - ESA hot water measures when PG&E does not provide the source of energy for the water heating
- Water conservation resources:
 - Water conservation tip sheet
 - Hose nozzles
 - Shower timers





California American Water

Homes Served in Test – 369

- 525 shower timers
- 204 hose nozzles
- 44 toilet flappers
- 181 toilets
- 123 faucet aerators (only when not feasible for ESA)
- 101 showerheads (only when not feasible for ESA)
- 90 thermostatic shower valves (only when not feasible for ESA)





Test Lessons Learned

- **Customers enthusiastic about water conservation**
- **Once programs are up and running, they require minimal effort**
- **Dual qualification processes a challenge for field staff**
- **Master meters create challenge to serving multi-family properties**
- **Manual data entry is a fault point**
- **Cross-referrals need to be automated**
- **Flapper replacement difficult**



ESA Water Coordination Program



Cafeteria-style menu of options



Better cross-referral process



Enhanced data collection



ESA Water Coordination Program

- Cafeteria-style menu of options

Service	New Coordination Program	
	PG&E	Water Agency
Interior Water Use Assessment		
Visual inspection	100%	
Toilet dye tab leak test		100%
Exterior Water Use Assessment		
Visual inspection		100%
Water meter leak test		
Water Conservation Education	100%	
Give aways (hose nozzle, grease bucket, etc.)		100%
Toilet Tank Efficiency Kit	100%	
Referrals to Water Agency for Rebate Program or Other Services		100%
Cold Water Measures		
HE Toilet		100%
Dual Flush Converter		
Shower Timer		
Hot Water Measures		
Faucet aerators	100% if PG&E heats water	100% if PG&E does not heat water
Low-flow shower heads		
Thermostatic shower valves		



ESA Water Coordination Program

California American Water

- **Sacramento, Monterey/Salinas and Santa Rosa areas**
- **Services:**
 - Toilet dye tab leak test
 - External water audit
- **Water measures:**
 - Toilet retrofits
 - ESA hot water measures when PG&E does not provide the source of energy for the water heating
- **Water conservation resources:**
 - Hose nozzles
 - Shower timers
- **Administrative**



ESA Water Coordination Program

- **Water Agencies Enrolled**
 - California American Water
 - Solano County Water Agency
 - Yuba County Water Agency
- **Anticipate 10-12 agencies by end of 2019**



Questions?



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