

## DOCKETED

<b>Docket Number:</b>	15-WATER-01
<b>Project Title:</b>	Water Energy Technology (WET) Program
<b>TN #:</b>	204799
<b>Document Title:</b>	Presentation
<b>Description:</b>	Presentation for June 2, 2015 workshop on the Water Energy Technology (WET) Program
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<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	6/1/2015 10:29:19 AM
<b>Docketed Date:</b>	6/1/2015



CALIFORNIA ENERGY COMMISSION

# Workshop on the Water Energy Technology (WET) Program

Fresno City Hall  
2600 Fresno Street  
Fresno, California 93721

June 2, 2015



## Agenda

- Background
  - Governor's Direction for the WET Program.
  - Coming Soon: Appliance and Fixture Rebate Program.
  - Other Drought Response Efforts at the Energy Commission.
- Tentative Schedule for the WET Program
- WET Program Overview and Requirements
- Questions



## Background



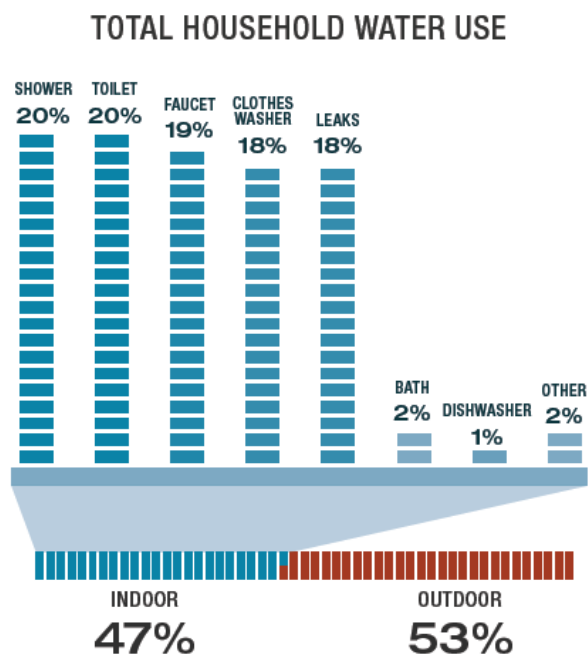
- In response to California's ongoing drought, Governor Brown directed the first ever statewide mandatory water reductions. (Exec. Order B-29-15)
- The Governor directed the Energy Commission to implement a water energy technology (WET) program as part of its work to address the drought.
- Other drought-related work at the Energy Commission
  - Standards to improve water appliances efficiency.
  - Expedited processing of applications for alternate water supply for power plant operation.
  - Water appliance and fixtures rebate program.

<http://www.energy.ca.gov/drought/>



## Background: Water Appliances and Fixtures Rebate Program

LAUNCHING SUMMER 2015



Source: Aquacraft Inc. California Single Family Water Use Efficiency Study, December 6, 2011

- *Provide Californians with rebates for appliances and fixtures to reduce water and energy use.*
- \$30 million proposed for this program.
- Potential delivery channels include: in-store instant rebates, direct install water appliances/fixtures.
- Possible appliances/fixtures may include: dishwashers, clothes washers, kitchen and bathroom faucets, showerheads.
- Public meetings for program input in May and June. Check website below for details.

<http://www.energy.ca.gov/drought/rebate>



## WET Program Overview

- Fund innovative technologies that meet the following criteria:
  - Display significant on-farm water savings, energy savings, and greenhouse gas emission reductions.
  - Demonstrate actual operation beyond the research and development stage.
  - Documented readiness for rapid, large-scale deployment in California. (Not currently being widely deployed)
- Proposed budget:
  - \$30 million from Greenhouse Gas Reduction Fund.

**Program design developed in coordination with CDFA, DWR, and others**



## WET Program: Tentative Schedule

Item	Date
Program Development	May – June 2015
Public Workshops for Program Input	June – July 2015
Draft Agriculture Program Guidelines	Mid-June
Seek Approval of Agriculture Program Guidelines, Application, and Other Program Requirements	July 2015
Begin Accepting WET Program Applications for Agriculture	July 2015
Seek Approval of Commercial, Residential, Industrial and Renewable Powered Desalination Program Guidelines, Application and Other Program Requirements	August 2015
Begin Accepting Applications for Commercial, Residential, Industrial and Renewable Power Desalination	September 2015



## Phase 1: Agriculture

### Proposed Initial Technology Focus:

- Integrated low-pressure irrigation package.
  - Must meet advanced performance specifications.
- More technologies/strategies may be added to the rebate list over time.
  - After required data and documentation are provided and reviewed.
- Competitive grants available for customized projects.

*\$7 million in rebates and  
\$3 million in grants.  
Coming July*







## Proposed WET Program Requirements

- Applications must be complete, including documentation for baseline water and energy use and estimated GHG emission reductions, to be considered for funding.
  - Guidebook will include directions for estimating GHG emission reductions.
  - WET Program **rebates**: streamlined first-come, first-served process.
  - WET Program **competitive grants**: additional documentation required for customized projects.
  - Rebates and grants cannot be combined with funding from CDFA's SWEEP or DWR's Water Energy Efficiency Program
  - Projects benefiting and located in disadvantaged communities (as defined by Cal EPA based on the CalEnviroScreen, pursuant to SB 535, De Leon, Statutes of 2012) will receive additional consideration for funding.



## Proposed WET Program Requirements

- Eligible technologies must be innovative, commercially available (but not widely used in California), and save both energy and water.
- Eligible project costs include:
  - Equipment, materials/supplies, installation labor.
  - Recipient must comply with prevailing wage requirements, if applicable.
- Ineligible project costs include:
  - Post-project service charges and maintenance costs for the funded system; non-labor costs (e.g., management) and fees associated with project oversight; supplies & equipment costs not related to the WET Program project ; costs incurred before rebate/grant award.
- Funded projects must provide data/documentation to aid in measurement and verification, including electric and water utility billings associated with the project.
  - On site visits/audits, upon request
  - Pre- and post inspections and energy and water use reporting may be required during the first 24 months of project operation, upon request.
- Rebate or grant payment will be paid upon post-installation verification.



## WET Rebate Process

### Complete & Submit Application

- Include supporting documentation
- Sign application
- Agree to terms and conditions

### Energy Commission Review

- Is the application complete?
- Minimum requirements met?
- Pre-installation inspection, upon request
- Respond to clarifying questions

### Rebate Reservation, Payment & Follow-up

- Rebate awards posted on the Energy Commission website
- One payment when project complete
- Post-installation inspection, upon request
- Provide annual water and energy bills



## WET Grant Process

### Complete & Submit Application

- Include supporting documentation
- Sign application
- Agree to terms and conditions

### Energy Commission Review

- Is the application complete?
- Minimum requirements met?
- Pre-installation inspection, upon request
- Evaluation of applications based on set criteria

### Grant Award, Reservation, Payment & Follow-up

- Grant awards posted on the Energy Commission website
- One payment when project complete, no progress payments
- Post-installation inspection, upon request - could include savings verification
- Provide annual water and energy bills



## Phase 2: Industrial, Commercial and Residential

- Integrated on-site use of recycled water with direct on-site energy savings technologies
- No or Reduced Water use technologies

Examples:

- Food processing
- Commercial laundry
- Food service
- Medical
- Cooling Tower improvements
- Retail Beverage

*\$16 million in rebates and competitive grants. Coming September.*





## Phase 3: Renewable Desalination

- Maximize energy efficiency, use of renewable energy while increasing water production

Examples:

- Minimize sludge processing energy.
- Increase potable water production.
- Energy recovery systems.
- Renewable energy integration controls.
- Focus on existing plants or plants under construction.

*\$3 million in grants available;  
competitive solicitation.  
Coming September.*

**This phase of program will consist of grants.**





## Questions

The Energy Commission welcomes your input on the program. Please help us by providing feedback on the following questions concerning the Water Energy Technology Program:

1. What emerging technologies should be considered that provide direct on-site energy, water, and greenhouse gas savings for each of the identified sectors?
2. What are some of the main barriers preventing implementation of advanced water and energy saving projects?
3. To what extent is broadband or internet availability a factor that prevents implementation of water and energy saving projects, especially on farms and in rural areas?
4. Are there any operational, regulatory, or other constraints that prevent installing projects quickly?
5. What is the capability of obtaining utility data showing pre- and post-energy and water use? If utility data is not available, how will pre- and post-results be documented?
6. How can the WET Program best bring benefits to disadvantaged communities?



## Next Steps

- Comments due by **4:00 p.m. by June 16, 2015.**
  - Email comments to: [docket@energy.ca.gov](mailto:docket@energy.ca.gov)
  - Please include Docket **15-WATER-01** and indicate **Drought Response** in the subject line.
- Sign up for the WaterSaver Listserv for notice of workshops and program updates at  
[www.energy.ca.gov/wet/](http://www.energy.ca.gov/wet/)





## For Further Information

- WET Program website:  
[www.energy.ca.gov/wet/](http://www.energy.ca.gov/wet/)
- WET Program email:  
[wet@energy.ca.gov](mailto:wet@energy.ca.gov)
- Idea Exchange:  
[http://www.energy.ca.gov/wet/idea\\_exchange.html](http://www.energy.ca.gov/wet/idea_exchange.html)