

DOCKETED

Docket Number:	15-WATER-01
Project Title:	Water Energy Technology (WET) Program
TN #:	205175
Document Title:	Staff Draft 2015 WET Rebate Application Manual
Description:	Staff Draft Water Energy Technology Program Rebate Application: Advancing Energy and Water Reducing Technologies for Agriculture
Filer:	Pamela Doughman
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/26/2015 3:57:31 PM
Docketed Date:	6/26/2015

Staff Draft for Public Discussion

STAFF DRAFT
WATER ENERGY TECHNOLOGY PROGRAM
REBATE APPLICATION
Advancing Energy and Water Reducing Technologies for
Agriculture



WET-15-001

<http://www.energy.ca.gov/contracts/index.html>

State of California

Staff Draft for Public Discussion
California Energy Commission
July 2015

Staff Draft for Public Discussion

TABLE OF CONTENTS

I. INTRODUCTION 1

 A. PURPOSE OF THIS DOCUMENT1

II. APPLICATION ORGANIZATION AND SUBMISSION INSTRUCTIONS 2

 A. APPLICATION FORMAT AND NUMBER OF COPIES2

 B. APPLICATION DELIVERY2

 C. APPLICATION ORGANIZATION AND CONTENT3

ATTACHMENTS

Attachment Number	Title
1	Application Form <i>(requires signature)</i>
2	Supplemental Information
3	Project Budget <i>(Excel spreadsheet)</i>

I. Introduction

A. PURPOSE OF THIS DOCUMENT

In response to the California's drought, Governor Brown's Executive Order B-29-15 outlines bold steps to save water, increase enforcement of water use standards, streamline the state's drought response, and invest in new technologies to make California more drought-resilient. In an effort to accelerate innovative water and energy technologies, California Energy Commission, jointly with the Department of Water Resources and the State Water Resources Control Board, will implement the Water Energy Technology Program and provide funding for emerging technologies.

Funding for the Water Energy Technology (WET) program is from the California Climate Investments program. This program requires that all funded projects reduce greenhouse gas emissions and further the purposes of Assembly Bill 32 (Chapter 488, Statutes of 2006). The program also requires that benefits to disadvantaged communities be maximized

The WET program will advance the deployment of advanced technologies that will result in long lasting greenhouse gas reductions and further the purposes of AB 32. The projects must also result in direct water savings. The program will partially fund advanced water efficient technologies that will reduce greenhouse gas emissions and on-site water and energy use.

This document describes the application process for rebates under the Energy Commission's agricultural phase of the WET program.¹ Project Applicant eligibility and restrictions are identified in the Water Energy Technology Rebate Program Guidebook. Please also refer to this guidebook for additional information about this program. Much of the information in this document was excerpted from the Guidebook. Periodically, the Energy Commission will add technologies or systems to the rebate list. Please see _____ for eligibility requirements.

This document will provide potential rebate applicants with information on:

- Where to Submit the Application
- Application Submittal Requirements

¹ For grants, please refer to the separate application entitled, Water Energy Technology Program Grant Application

II. Application Organization and Submission Instructions

A. APPLICATION FORMAT AND NUMBER OF COPIES

The following table summarizes the application formatting requirements:

Format	<ul style="list-style-type: none">• Pages: Numbered and printed double-sided• Signatures: Manual (i.e., not electronic)• File Format: MS Word version 1997-2003 or version 2007 or later (.doc or .docx format), excluding Excel spreadsheets. PDF files are acceptable for drawings and schematic plans• File Storage: Electronic files of the application must be submitted on a CD-ROM or USB memory stick
Number of Copies of the Application	<ul style="list-style-type: none">• Three hard copies (including one copy with original signatures)• One electronic copy (on a CD-ROM or USB memory stick)

B. APPLICATION DELIVERY

Include the following label information on the mailing envelope:

Applicant's Project Manager
Applicant's Name
Street Address
City, State, and Zip Code

WET Program Rebates
Energy Efficiency Research Office
California Energy Commission
1516 Ninth Street, MS-51
Sacramento, California 95814

Applications must be delivered to the Energy Commission's Energy Efficiency Research Office (in person or via U.S. mail or courier service) during normal business hours.

C. APPLICATION ORGANIZATION AND CONTENT

Submit application attachments in the order specified below.

Attachment Number	Title of Section
1	Application Form (signature required)
2	Supplemental Information
3	Project Budget Form

DRAFT

**STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 1
WET Program**

Agricultural Operations Rebate Application Form

Applicant's Identification Information		
Legal Name of Applicant and/or Organization		
Check the Sector that Describes Your Organization	<input type="checkbox"/> Agricultural Operation <input type="checkbox"/> Collaborative Applicant, representing one or more agricultural operations <input type="checkbox"/> Government Entity (e.g., city, county, state and federal government, air/water/school district, joint power authority, academia) <input type="checkbox"/> Other: Specify	
Federal Tax ID #	-	
Project Manager <i>(serves as the point of contact for all communications)</i>	Name	
	Street Address	
	City, State, and Zip Code	
	Phone/ Fax Numbers	Phone: Fax:
	E-Mail Address	

Application Type <i>(Check one - refer to Application Manual for description)</i>	
<input type="checkbox"/> Group A	<input type="checkbox"/> Group B (Disadvantaged Communities)

Who will install your system?	
<input type="checkbox"/> Private company: _____	<input type="checkbox"/> Self-Install

Project Budget Summary <i>(Complete the table below. For collaborating applicants, a separate line item must be completed for each agricultural operation. This table must match the information in Attachment 3, Project Budget.)</i>	
WET Program Grant Amount Requested	Total Eligible Project Cost
Group A rebates are capped at \$250,000 and cannot exceed 50% of the total eligible project cost.	
Group B rebates are capped at \$250,000 and cannot exceed 75% of the total eligible project cost.	

**STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 1
WET Program**

Agricultural Operations Rebate Application Form

Proposed Term <i>(May be subjected to installation audits for measurement and verification even after proposed end date.) Refer to WET Rebate Guidelines for timeframe.</i>	
Start Date: / /	End Date: / /

Property/Project Location <i>(Complete the table below for the location of each agricultural operation in which the rebated technology will be installed. Complete one table for each non-contiguous location. Make duplicate copies of this table, as needed)</i>
Indicate property location where the project will be implemented. a. Address or nearest Cross Streets b. City, Zip Code c. Assessor Parcel Number(s) d. Name of Irrigation District where project will be implemented
<i>Describe acreage impact by the project and the slope of the land:</i>
<i>Describe current and past land use and crops grown:</i>
<i>Describe current irrigation practices and system:</i>
<i>Describe water source (surface or groundwater pumped from on-farm wells):</i>
<i>Describe how often the crops need to be irrigated and during what period of the year:</i>
<i>Describe any past energy and water efficiency projects installed</i>

**STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 1
WET Program**

Agricultural Operations Rebate Application Form

<p>Current System Information <i>(Complete the table below for the location of each agricultural operation in which the rebated technology will be installed. Complete one table for each non-contiguous location. Make duplicate copies of this table, as needed)</i></p>
<p><i>Provide the age of the existing irrigation system:</i></p>
<p><i>Provide the manufacturer of the current drip irrigation system:</i></p>
<p><i>Describe any known plugging issues with the current irrigation system:</i></p>
<p><i>Pump tests are required for all pumps servicing the project acreage (Refer to Guidebook Section IV and Attachment 2).</i></p> <p>Attach a copy of the most current pump test for all pumps servicing the project acreage, Pump tests should include at a minimum:</p> <ul style="list-style-type: none"> • flow rate • discharge pressure • pumping water level • age of the pump
<p><i>Attach a copy of the most current Distribution Uniformity Test (DU Test) results (Refer to Guidebook Section IV and Attachment 2).</i></p>

<p>For Collaborative Applicants <i>List the companies/farms that are associated with project location named on this application and explain the relationship and role</i></p>			
Name of Company/Farm	Address	Federal Tax ID	Relationship and Role

**STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 1
WET Program**

Agricultural Operations Rebate Application Form

Past Project Activity *(Complete the table below if you have or are participating in CDFA's SWEEP, DWR's Water Energy Efficiency Program, any other California state agency or California water or energy utility programs.)*

Name of Entity that Issued the Agreement	Description of Project and Status

The following items must be included with this application.
 Attachment 2 Supplemental Information (Refer to Section IV of the Guidebook)
 Attachment 3 Project Budget

Certifications

1. I am authorized to complete and sign this form on behalf of the applicant.
2. I authorize the California Energy Commission to make any inquiries necessary to verify the information presented in this application.
3. I have read and understand the terms and conditions contained in the WET Program Guidebook. I accept the terms and conditions contained in the WET Program Guidebook on behalf of the applicant, and the applicant is willing to enter into an agreement with the Energy Commission to conduct the proposed project according to the terms and conditions without negotiation.
4. To the best of my knowledge, the information contained in this application is correct and complete.

Signature of Authorized Representative		Date:
Printed Name of Authorized Representative		

STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 2
WET Program

Agriculture Rebate Application – Supplemental Information

For **ALL** applicants, include the following in this attachment:

- 12 months of pre-retrofit energy bills, showing the current monthly energy use and cost, for the energy use affected by the technology. This will be the actual baseline energy use including supporting documents, such as utility billings or calculations showing how the baseline energy use (e.g., kWh and/or therms, as applicable) was determined and how it is directly related to the actual on-farm energy use associated with the project. [As an alternative, provide access to the Energy Commission and its contractor to receive electronic data on billings from your local utility]
- 12 months of pre-retrofit water bills or flow meter readings showing the monthly water use, or use USDA water calculator, as applicable, or show calculations for how baseline water savings were determined. This will be the actual baseline water value with supporting documents, such as utility billings, flow meter readings, and/or calculations showing how the baseline was determined and how it is directly related to the actual on-farm water use data in the supporting documentation. The USDA, NRCS Field Office Technical Guide – Irrigation Water Savings Calculator is a useful tool to assist applicants in calculating their baseline.¹
- Irrigation design drawing by a certified Irrigation Designer. The drawing must meet at a minimum, all the requirements indicated in Table 1, Section III of the Guidebook.
- Equipment specifications and performance metrics for all major equipment associated with the project. These specifications must address all equipment and items listed in Table 1, Section III of the Guidebook. Complete Table 2-1 (Excel Spreadsheet).
- Pump test results for each pump associated with the irrigated acreage.
- Distribution uniformity test (if available).

For Collaborating applicants, include the following:

- A written authorization from each of the agricultural operations participating in the application. The letter should indicate that the lead collaborator is applying for the rebate on their behalf.

For applicants applying under Group B, Disadvantaged Communities, include the following:

¹ Water Savings Calculator: <http://efotg.sc.egov.usda.gov/treemenuFS.aspx> To use the Irrigation Water Savings Calculator: (1) click on Section I; (2) click on Resource Assessment Tools; and (3) click on Irrigation Water Savings Calculator (CA). The calculator is a Microsoft Excel file providing options for irrigation system improvement types, level of Irrigation Water Management, soil type, crop type, and ET zone information.

STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 2
WET Program

Agriculture Rebate Application – Supplemental Information

- Indicate the census tract for the project: Disadvantaged communities are areas identified by census tract and scored at or above the 75th percentile using the methodology in CalEnviroScreen for ranking communities burdened by environmental and socioeconomic issues.² An Applicant can identify the project's census tract number(s) by using the following Disadvantaged Communities Census Tract online tool:
<http://maps.gis.ca.gov/cdfa/tractfinder.html>.
- Discuss how your project meets one of the following requirements :
 1. **Projects located in Disadvantaged Community census tract³ and provide direct, meaningful and assured benefits** to one or more disadvantaged communities, consistent with the Air Resources Board's criteria.⁴ The following are examples of projects that meet this criteria:
 - Project provides water and energy use efficiency incentives or other services that reduce energy use to water users (e.g., residential, commercial, agricultural) with a physical address in a disadvantaged community.
 - Project improves, repairs or replaces water system infrastructure for water and energy savings within a disadvantaged community.
 - Project provides upgrades for buildings that are located within a disadvantaged community (e.g., public buildings , in a disadvantaged community, single-or multi-family housing units in a disadvantaged community).
 - Project provides incentives for a facility in a disadvantaged community and the project results in direct air or water quality benefits in the disadvantaged community.
 - Project provides incentives for an anaerobic digestion system (e.g., organic waste digester or dairy digester) that is located in a disadvantaged community.
 2. **Projects not located in Disadvantaged Community but will provide direct benefits to one or more Disadvantaged Communities**, consistent with Air

² Disadvantaged community information: For further information, see <http://www.calepa.ca.gov/EnvJustice/GHGInvest/> and <http://oehha.ca.gov/ej/ces2.html>.

³ For maps of disadvantaged community census tracts, refer to:
www.calepa.ca.gov/EnvJustice/GHGInvest/

⁴ Air Resources Board, Funding Guidelines for Agencies that Administer California Climate Investments, Volume 2: Investments to Benefit Disadvantaged Communities, Appendix 2.A.

STAFF DRAFT FOR PUBLIC DISCUSSION
ATTACHMENT 2
WET Program

Agriculture Rebate Application – Supplemental Information

Resources Board's criteria.⁵ The following are examples of projects that meet this criteria:

- Project reduces both energy and water use through improvements to the water conveyance or distribution systems [or treatment] that directly serve a disadvantaged community
- Project includes recruitment, agreements, policies or other approaches that are consistent with federal and state law and result in at least 25% of the project work hours performed by residents of a disadvantaged community
- Project includes recruitment, agreements, policies or other approaches that are consistent with federal and state law and result in at least 10% of project work hours performed by residents of a disadvantaged community participating in job training programs which lead to industry-recognized credentials or certifications.
- Majority of waste processed in a digester/ composting facility is generated by agricultural operations in a disadvantaged community.

⁵ Air Resources Board, Funding Guidelines for Agencies that Administer California Climate Investments, Volume 2: Investments to Benefit Disadvantaged Communities, Appendix 2.A.

Staff Draft for Public Discussion

ATTACHMENT 2A

Equipment Specifications

	A	B	C	D	E	F	G	H	I
1	<p>The specifications in this attachment must meet the requirements specified in Table 1 of the Water Energy Technology Rebate Program Guidebook. If applying for multiple agricultural operation sites, this table must specify the name of the site/location. Duplicate this table for each site/location.</p> <p><i>Include specifications for equipment efficiency and usage that will be used to determine water and energy usage. The items on this list must match the Equipment Budget in Attachment 3. Equipment is defined as item with a cost of \$5,000 or more.</i></p>								
2	Site Location	Item Name	Manufacturer Name	Model Number	Specifications				
3		Example 1: Premium Efficiency Pump Motor	XYZ Company	111-222	Motor power (footnote source): RPM: Load factor (avg motor load/rated load): Annual operating hours: Motor efficiency:				
4		Example 2: Variable Frequency Drive Controller	XYZ Company	111-222	Motor power (footnote source): RPM: Load factor (avg motor load/rated load): Annual operating hours: Drive efficiency under full load: Motor efficiency:				
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

Staff Draft for Public Discussion

ATTACHMENT 3

Project Budget

Complete the project budget to show the breakdown of cost for the proposed project. **One project budget form must be completed for each agricultural operation.**

Applicant Name:
 Name of Agricultural Operation:
 Location:

Equipment: *Defined as items having a per unit cost of at least \$5,000 and a useful life of at least 1 year. Equipment means any products, objects, machinery, apparatus, implements or tools purchased, used or constructed within the Project, including those products, objects, machinery, apparatus, implements or tools from which over thirty percent (30%) of the equipment is composed of Materials purchased for the Project. Items not meeting this definition should be included on the Materials section. **The equipment listed on this form must match those in the Equipment Specifications Form (Attachment 2) and be consistent with Table 1 in the Guidebook.***

Item (Name, Make and Model #)	# of Units	Unit Cost	Total Cost		
			Energy Commission	Applicant	Total
Total Equipment Cost			\$ -	\$ -	\$ -

Materials *(Materials are items under the agreement that do not meet the definition of Equipment.)*

Name of Item	Total Cost		
	Energy Commission	Applicant	Total
Total Materials	\$ -	\$ -	\$ -

Contractor Labor Cost *(Compensation for individual contractor fees should be reasonable and consistent with fees in the marketplace for similar services)*

Name of Service	Total Cost		
	Energy Commission	Applicant	Total
Total Contractor Labor Cost	\$ -	\$ -	\$ -

Staff Draft for Public Discussion

ATTACHMENT 3

Project Budget

Complete the project budget to show the breakdown of cost for the proposed project. **One project budget form must be completed for each agricultural operation.**

Applicant Name:
 Name of Agricultural Operation:
 Location:

Equipment: *Defined as items having a per unit cost of at least \$5,000 and a useful life of at least 1 year. Equipment means any products, objects, machinery, apparatus, implements or tools purchased, used or constructed within the Project, including those products, objects, machinery, apparatus, implements or tools from which over thirty percent (30%) of the equipment is composed of Materials purchased for the Project. Items not meeting this definition should be included on the Materials section. **The equipment listed on this form must match those in the Equipment Specifications Form (Attachment 2) and be consistent with Table 1 in the Guidebook.***

Item (Name, Make and Model #)	# of Units	Unit Cost	Total Cost		
			Energy Commission	Applicant	Total
Total Equipment Cost			\$ -	\$ -	\$ -

Materials *(Materials are items under the agreement that do not meet the definition of Equipment.)*

Name of Item	Total Cost		
	Energy Commission	Applicant	Total
Total Materials	\$ -	\$ -	\$ -

Contractor Labor Cost *(Compensation for individual contractor fees should be reasonable and consistent with fees in the marketplace for similar services)*

Name of Service	Total Cost		
	Energy Commission	Applicant	Total
Total Contractor Labor Cost	\$ -	\$ -	\$ -