

## Agricultural Statewide Program

	<b>Mission</b>
<b>SW Program: Agricultural</b>	The Statewide Agriculture Program offers California’s diverse agricultural customers a statewide-consistent suite of products and services to overcome the market barriers to optimized energy management. The program targets integrated energy management solutions, including energy efficiency, demand response, and distributed generation, through strategic energy planning support, technical support services, such as facility audits, pump tests, calculation and design assistance, and financial support through rebates and incentives. The Program adopts and supports the strategies and actions of the Agriculture and Industrial chapters of the California Long-Term Energy Efficiency Strategic Plan (Strategic Plan).

<b>CA EESP Goals/Strategies Addressed by SW Program:</b>	<b>CA EESP Ref. pp. #</b>
<b>Goal 1:</b> Establish and maintain a knowledge base sufficient to support development of all available, cost-effective, reliable, and feasible energy efficiency, demand reduction (and renewable) energy resources.	p. 51
<b>Strategy 1-1:</b> Develop knowledge base of efficiency solutions	p. 53
<b>Goal 2:</b> Achieve significant increases in the efficiency of electricity and natural gas use and on-site renewable utilization.	p. 51
<b>Strategy 1-1:</b> Develop knowledge base of efficiency solutions	p. 51
<b>Strategy 1-3:</b> Conduct research & development of new technologies and practices for agricultural efficiency	p. 53
<b>Strategy 1-2:</b> Ensure workforce has information and training necessary to apply efficiency solutions	p. 53

<b>Short-term (2010-2012) “SMART” Program Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Recommendations and Comments</b>
1. By 2012, the percent of participation among small or hard-to-reach customers will increase by X/Y/Z% (by NAICS or SIC code).	DR, IOUs, Staff	Replace with: By the end of 2012, the percent of participation among customers less than 200kW or 50K therms will be tracked.

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		Comment: Establishing a baseline will require a fairly large and long market study. The need and value of an increase should be defined based on the baseline results.
2. By 2012, the percent of participant awareness of integrated demand side management opportunities will increase by X%. – SEE IDSM – Remains in AG as an objective but not metric assigned to it.	Staff, PIPs (SCE p293, PG&E p36)	Moved to IDSM
3. By 2012, the percent of participant awareness of Continuous Energy Improvement steps will increase by X%. – Remains in AG as a short term objective	IOUs, Staff	Replace with: The number of first time participants in energy efficiency programs will be tracked.  Comment: Objective coming from Deemed and Calculated (Obj.#1) with modification because awareness would be too difficult to measure with market study.

Short-term <u>Program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (2a or 2b)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments
<p>1. Participation rate among small (less than 200kW) or hard-to-reach (as defined by IOU task force) customers (by NAICS or SIC code) in each of the following subprograms: (a) Continuous Energy Improvement (b) Non-Residential Audits (c) Deemed Incentives and (d) Calculated Incentives</p> <p>Participation of unassigned ag (excluding food processing) in any in each of the following subprograms: (a) Continuous Energy Improvement (b) Non-Residential Audits (c) Deemed Incentives and (d) Calculated Incentives in the last 6 years.</p> <p>(Refine definition of Small &amp; Hard to Reach ag customers via Market Char Study from “ag accounts without account reps”.)</p>	IOUs, Staff	2a	N	<p>Replace with: Number of customers participating in programs (Deemed and Customized) per NAICS code and size (less than 200 kW or 50K therms) (Type 1)</p> <p>Comment: In order to track something now that is more easily defined, we have chosen size of customers and their NAICS at facility level.</p>
2. Participant awareness of IDSM practices in each of the following subprograms: (a) Continuous Energy Improvement (b) Non-Residential	PIPs	2b	Y	Move to IDSM

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Audits (c) Deemed Incentives and (d) Calculated Incentives.-MOVED TO IDSM FOR TRACKING & REPORTING – Should remain as an objective for Ag in the objective section,				
3. Decision makers' awareness of continuous improvement steps in each of the following subprograms: (a) Non-Residential Audits (b) Deemed Incentives and (c) Calculated Incentives. – MOVE TO statewide AG LONG TERM (MT)	IOUs, Staff	2b	Y	Replace with: Number of first time participants in energy efficiency programs  Comment: Added to track ST Objective #4.

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) "SMART" Program Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Recommendations and Comments
1. By 2015, the percentage of participants in each of the following subprograms who go on to implement a long-term energy plan under the Continuous Energy Improvement subprogram will exceed the following thresholds: (a) Non-Residential Audit – X% (b) Calculated Incentives – Y% (c) Deemed Incentives – Z%	IOUs, Staff	Replace with: By the end of 2020, the percentage of participants in the Agricultural program that go on to implement the customer's long-term energy plan will reach X%. X will be defined by the end of 2012 based on a baseline study done during this cycle.  Commnet: CEI is in a pilot stage now. Define Energy Plan
2. By 2020 production energy intensity of California Agriculture is 15% below that of 2008 levels for non-renewable (language found in Strategic Plan but problematic with current knowledge of ag segment; pending Market Characterization results which may suggest a change in % objective).	LT SP p. 52	Delete

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

Long-Term MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments

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<p>1. Percent of participants in each of the following subprograms who go on to implement a long-term energy plan under the Continuous Energy Improvement program:                  (a) Non-Residential Audit,                  (b) Calculated Incentives and                  (c) Deemed Incentives</p>	IOUs, Staff	3	N	Replace with: Percentage of participants in the Agricultural program who go on to implement a long-term energy plan.
<p>2. % energy intensity of California Agriculture</p>		3	N	Delete
<p>3. % of Decision makers' in IOU service territory who are aware of the continuous improvement steps and program in each of the following subprograms: (a) Non-Residential Audits (b) Deemed Incentives and (c) Calculated Incentives.</p>		3	N	Delete

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 3 = data collection, tracking, and reporting [by IOUs, CPUC staff, and/or other entities] to be determined later.

## Agriculture – Continuous Energy Improvement Subprogram

<b>Mission</b>	
<b>SW Program: Agriculture</b>	Continuous Energy Improvement (CEI), a non-resource sub-program, describes a collection of strategic planning tools and resources that lay the groundwork for long-term integrated energy planning and serve as a launching platform for other utility and non-utility programs and services. Through analysis, benchmarking, long-term goal setting, project implementation support, performance monitoring, and potentially access to energy management certification
<b>SW Sub-program: Continuous Energy Improvement (CEI)</b>	

<b>CA EESP Goals/Strategies Addressed by SW Sub-program:</b>	<b>CA EESP Ref. pp. #</b>
<b>Goal 1:</b> Establish and maintain a knowledge base sufficient to support development of all available, cost-effective, reliable, and feasible energy efficiency, demand reduction (and renewable) energy resources.	p. 51
<b>Strategy 1-1:</b> Develop knowledge base of efficiency solutions	p. 53

<b>Short-term (2010-2012) “SMART” Sub-program Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Recommendations and Comments</b>
<b>Objective 1:</b> By 2012 lessons learned, best practices, and plan to ramp up the CEI Program (if desirable) will be developed (Y/N)	Statewide PIP (PG&E) p. 33	Revise to: By the end of 2011 lessons learned, best practices, and recommendations to ramp up the CEI Program for the next funding cycle (if appropriate) will be developed
<b>Objective 3:</b> By 2012 X% of targeted agriculture customers will implement a long-term energy plan via the CEI program.	Statewide PIP (PG&E) p. 5	Revise to: By the end of 2012, the number of Food Processing customers who created an energy plan via CEI will be tracked.
<b>Objective 2:</b> By 2012, X% of CEI participants will meet their short term energy goals as identified in their long-term energy plan.	Statewide PIP (PG&E) – p. 30	Revise to: By the end of 2012, the number of Food Processing CEI participants that meet short-term (2010-2012) milestones from their customer energy plan will be tracked.
<b>Objective 4:</b> By 2012, the percent of participant awareness of IDSM opportunities as a result of participating in the CEI Program will increase by X% SEE IDSM	Statewide PIP (PG&E) p. 33	Moved to IDSM

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Short-term <u>Sub-program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (2a or 2b)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments
<b>PPM 1:</b> Lessons learned, best practices, and a plan to ramp up the CEI Program are developed (Y/N)	PIP	2b	N	Replace with: Lessons learned including number of food processors who have created energy plans and have meet short term (2010-2012) milestones, best practices, and recommendations to ramp up the CEI Program for the next funding cycle (if appropriate) will be developed (Y/N)
<b>PPM 3:</b> Percent of targeted agriculture customers who are implementing or have implemented a long-term energy plan via CEI – MOVED TO LONG TERM CEI but should also be a statewide AG long-term objective. – should be tracked as part of the statewide program because it is important to know of the customers targeted “statewide” what percent of them were successfully funneled to CEI. CEI sub-program won’t have this information. – It is there.	PIP	2b	N	Moved to PPM 1 above
<b>PPM 2:</b> Percent of CEI participants meeting their short-term milestones – WILL BE REPORTED IN CEI sub-program .	PIP	2b	N	Deleted
<b>PPM 4:</b> Percent of participant awareness of IDSM opportunities as a result of participating in the CEI Program – WILL BE REPORTED IN CEI METRICS	PIP	2b	N	Moved to IDSM

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Recommendations and Comments
<b>Objective 1:</b> By 2015 the number of CEI Participants who achieve longer-term milestones as identified in their long-term energy plans increases by x% or X.	Statewide PIP (PG&E) – p. 30	Revise to: By 2015, the number of CEI <b>Food Processing</b> participants who achieve milestones as identified their long term energy plans will reach X.

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		Comment: The number X will be set by the end of 2012 when better visibility on CEI impact will be available.
<b>Objective 2:</b> By 2015, the number of agriculture customers who continue to implement their long-term energy plan via the CEI program, without IOU support, will increase by X%.	Statewide PIP (PG&E) p. 5	<b>Delete</b>
<b>Objective 3:</b> By 2015 X% of targeted agriculture customers who are implementing or have implemented a long-term energy plan via CEI		<b>Replace with:</b> <b><u>By the end of 2015 the number of CEI Food Processing Participants who go on to implement a long-term energy plan will reach X. The X will be defined by the end of 2012.</u></b>

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

<b>Long-Term Sub-program MT Indicators:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>Metric Type (3)**</b>	<b>Baseline Study Required (Y/N)</b>	<b>IOU Recommendations and Comments</b>
<b>MT Indicator 1:</b> Number of CEI Participants who achieve longer-term milestones as identified in their long-term energy plans	PIP	3	N	Revise to: Number of CEI participants who achieve milestones as identified in their long term energy plans.
<b>MT Indicator 2:</b> Percent of agriculture customers in the IOUs service territory who continue to implement a long-term energy plan via the CEI program, without IOU support. – CEI sub-program long term MT indicator	PIP	3	N	Delete  See LT CEI Objective #2 above and Comments
<b>MT Indicator 3:</b> Percent of targeted agriculture customers who are implementing or have implemented a long-term energy plan via CEI				Delete

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\*\*Metric type: 3 = data collection, tracking, and reporting [by IOUs, CPUC staff, and/or other entities] to be determined later.

## Agricultural – Non-Residential Audit Subprogram

<b>Mission</b>	
SW Program: <b>Agriculture</b>	Nonresidential Audits, including basic audits and Integrated Audits plus Retro-Commissioning (RCx) audits, provide an inventory of technical project opportunities and financial analysis information that can be used to support a customer’s short- or long-term energy plan, and overcome both informational and technical customer barriers.
SW Sub-program: <b>Non-Residential Audit</b>	

<b>CA EESP Goals/Strategies Addressed by SW Sub-program:</b>	<b>CA EESP Ref. pp. #</b>
<b>Goal 1:</b> Establish and maintain a knowledge base sufficient to support development of all available, cost-effective, reliable, and feasible energy efficiency, demand reduction (and renewable) energy resources.	p. 51
<b>Strategy 1-1:</b> Develop knowledge base of efficiency solutions	p. 53

<b>Short-term (2010-2012) “SMART” Sub-program Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Recommendations and Comments</b>
<b>Objective 1:</b> By 2012 the number of onsite audits used in the AG sector that are integrated will exceed X% - Remain in AG as objective	PIP - p. 3 / D.09-09-047 (p. 215)	Moved to IDSM
<b>Objective 2:</b> By 2012 NRA participants that also participate in another IOU sponsored EE , DR, or DG program exceeds X% - Remain in AG as objective	D.09-09-047, p. 3	Moved to IDSM
<b>Objective 3:</b> By 2012 X% of NRA participants implement measures without needing an IOU Incentive.	PIP p. 2 Audit Section (audits table)	Delete
<b>Objective 4:</b> By 2012 the number of participants within each customer class receiving integrated and non-integrated audits will increase by X%	PIP p. 2 Audit Section (audits table)	Moved to IDSM
<b>Objective 5:</b> By 2012, the % of customers who received audits, that adopt audit recommended technical, process, & practice improvements will increase by X%	Statewide PIP p. 3 Audit Section	Moved to IDSM

<b>Short-term Sub-program PPMs:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>Metric Type (2a or 2b)**</b>	<b>Baseline Study Required</b>	<b>IOU Recommendations and Comments</b>



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			(Y/N)	
PPM 1: % of audits used in the AG sector that are integrated in each customer class within the AG sector – Tracked in the statewide IDSM program.	p. 3 – PIP / D.09-09-047 (p. 215)	2a	N	Moved to IDSM
PPM 2: % of NRA participants that participate in another IOU EE, DG, or DR program as a result of the NRA – Tracked in the Statewide IDSM program.	D.09-09-047, p. 3	2a	N	Moved to IDSM
PPM 3: % of NRA participants that initiate a non-rebate funded measure as a result of the NRA.	PIP p. 2 Audit Section (audits table)	2b	N	Moved to IDSM
PPM 4: # of customers in each customer class receiving an integrated or non-integrated audit – Track each, integrated audit will be tracked in IDSM Program.	PIP p. 2 Audit Section (audits table)	2b	N	Moved to IDSM
PPM 5: # of customers who received audits, that adopt audit recommended technology, process & practice improvements	Statewide PIP p. 3 Audit Section	2B	N	Moved to IDSM

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*
None proposed at subprogram level. (See program level and IDSM Section)	

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)
None proposed at subprogram level. (See program level and IDSM Section.)			

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

## Agricultural – Deemed Incentives Subprogram

<b>Mission</b>	
SW Program: <b>Agriculture</b>	The Deemed rebate offering provides utility representatives, equipment vendors, and customers an easy-to-use mechanism to cost-effectively subsidize and encourage adoption of mass market efficiency measures through fixed incentive amounts per unit/measure for energy saved/projects installed. While Deemed rebates lend themselves well to penetrating the small and medium customer market, they are also a cost effective and efficient way to process large customer projects targeted through large customer strategies.
SW <u>Sub-program</u> : <b>Deemed</b>	

<b>CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u>:</b>	<b>CA EESP Ref. pp. #</b>
<b>Goal 1:</b> Establish and maintain a knowledge base sufficient to support development of all available, cost-effective, reliable, and feasible energy efficiency, demand reduction (and renewable) energy resources.	
<b>Goal 2:</b> Achieve significant increases in the efficiency of electricity and natural gas use and on-site renewable utilization.	
<b>Strategy 1-1:</b> Develop knowledge base of efficiency solutions	p. 51
<b>Strategy 1-3:</b> Conduct research & development of new technologies and practices for agricultural efficiency	p. 53
<b>Strategy 1-2:</b> Ensure workforce has information and training necessary to apply efficiency solutions	

<b>Short-term (2010-2012) “SMART” <u>Sub-program</u> Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Recommendations and Comments</b>
1. By 2012, the number of installed measures offered by the Deemed Incentives sub-program that are ETP or “advanced technology” relative to baseline will increase by X%.	CEESP Strategy 1-3, p. 53 Statewide PIP, (PG&E) p. 23	Revise to: By the end of 2012, the number of new, improved, or ETP measures in the Deemed program will increase by X% relative to the baseline (2006-2008). The X will be provided by the end of 2010.  Comment: Requires a baseline be established. The X will be provided by the end of 2010. The baseline will be established in analyzing the 2006-2008 catalog of

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		deemed measures.:
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Short-term <u>Sub-program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (2a or 2b)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments
1. Participant adoption rate of all applicable ETP and under-utilized measures relative to baseline. See Commercial and Industrial updates for language. –SEE COMMERCIAL DISCUSSION IN ORDER TO DEVELOP METRIC ---- OBJECTIVE: Stop offering the same old deemed measure year after year. Might not have to be a new “emerging technology” but want to see “fresh” measures in the catalog being adopted by customers.	Statewide PIP, (PG&E) p. 23 / CEESP Strategy 1-3, p. 53	2b	Y	Replace with: Number of new, improved, and ETP measures in the program  Comment: Targets request to see “fresh” measures in the catalog being adopted by customers.

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Recommendations and Comments
1. By 2015, the percent of participants who go on to implement a long-term energy plan under the Continuous Energy Improvement program as a result of participating in the Deemed sub-program will increase by X%.	CEESP Strategy 2-1, p. 54	Delete  CEI is in pilot stage and recommendations to ramp up have not yet been made, It is the IOUs’ intent, however, that customers participating in the Deemed subprogram will continue to participate in the Deemed or other sub-programs after experiencing first hand the reward of reducing energy use and receiving incentives from the utility to overcome the financial barrier.
2. By 2012, the supply of qualified agricultural energy specialists will increase by X%.	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	Move to WE&T

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<p>3. By 2015, and every three years thereafter, all measures determined to be “standard practice” are moved out of the Deemed incentive program, and replaced by ETP or “Advanced Technology” measures.</p>	<p>Staff</p>	<p>Replace with: By 2015 and for every following program cycle, measures determined to be standard practice are phased out at various levels of the program [depending on the type of technology within the customer class] and replaced by new, improved or ETP measures. Standard Practice will be defined by the IOUs by the end of 2012</p> <p>Comment: Standard Practice will be defined by the end of 2012.</p>
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\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments
<p>1. Percent of program participants who go on to implement a long-term energy plan under the Continuous Energy Improvement program as a result of participating in the Deemed Incentive program.</p>	<p>Statewide PIP, (PG&amp;E) p. 23 / CEESP p. 52</p>	<p>3</p>	<p>Y</p>	<p>Delete See comments for LT Objective #1 above</p>
<p>2. Supply of qualified agricultural energy specialists</p>	<p>CEESP Strategy 1-3, p. 53 Statewide PIP p. 23 (PGE)</p>	<p>3</p>	<p>Y</p>	<p>Moved to WE&amp;T</p>
<p>3. Measures determined to be “standard practice” are moved out of the program, and program focused on ET/Advanced technology (Y/N)</p>	<p>Staff</p>	<p>3</p>	<p>N</p>	<p>Replace with: Measures determined to be standard practice are phased out at various levels of the program [depending on the type of technology within the customer class] and replaced by new, improved or ETP measures. (Y/N)</p>

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 3 = data collection, tracking, and reporting [by IOUs, CPUC staff, and/or other entities] to be determined later.

## Agricultural– Calculated Incentives Subprogram

<b>Mission</b>	
<b>SW Program: Agriculture</b>	The Calculated program offering provides standardized incentives for customized and integrated energy efficiency/DR projects in new construction, retrofit, and RCx projects, and offers comprehensive technical and design assistance for each. It overcomes information, technical, and financial barriers. As a more customized calculation method that can consider system and resource interactions, it will also be the preferred approach for supporting the integrated, whole system, and multi-resource management strategies of the Strategic Plan.
<b>SW Sub-program: Calculated Incentives</b>	

<b>CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u>:</b>	<b>CA EESP Ref. pp. #</b>
<b>Goal 1:</b> Establish and maintain a knowledge base sufficient to support development of all available, cost-effective, reliable, and feasible energy efficiency, demand reduction (and renewable) energy resources.	p. 51
<b>Goal 2:</b> Achieve significant increases in the efficiency of electricity and natural gas use and on-site renewable utilization.	p. 51
<b>Strategy 1-1:</b> Develop knowledge base of efficiency solutions	p. 51
<b>Strategy 1-3:</b> Conduct research & development of new technologies and practices for agricultural efficiency	p. 53
<b>Strategy 1-2:</b> Ensure workforce has information and training necessary to apply efficiency solutions	p. 53

<b>Short-term (2010-2012) “SMART” <u>Sub-program</u> Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Recommendations and Comments</b>
1. By 2012, the number of installed measures offered by the Calculated sub-program that are ETP or “advanced technology” relative to baseline will increase by X%.	CEESP Strategy 1-3, p. 53 Statewide PIP, (PG&E) p. 23	Revise to: By the end of 2012, the number of completed calculated projects that include available ETP measure will be tracked relative to the baseline (2006-2008).  Comment: The baseline will be established by analyzing the 2006-2008 calculated projects. Difficulties will come form

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		embedded ET measures in not flagged projects. Moving forward we will need to flag projects that include ET measures.
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Short-term <u>Sub-program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (2a or 2b)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments
1. Participant adoption rate of installed measures that are ETP or “advanced technologies” as a result of participation in the Calculated sub-program. ETP/AT have better opportunity with Calculated – See Industrial notes for this Metric.	PIP, (PG&E) p. 23 / CEESP Strategy 1-3, p. 53	2b	Y	Replace with: Number of projects with available ETP measures. included.

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\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Recommendations and Comments
1. By 2012, the supply of qualified agricultural energy specialists will increase by X%.	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	Move to WE&T
2. By 2015, the percent of customers who go on to implement a long-term energy plan under the Continuous Energy Improvement program as a result of participating in the Calculated sub-program will increase by X%.	CEESP Strategy 2-1, p. 54	Delete  CEI is in pilot stage and recommendations to ramp up have not yet been made, It is the IOUs’ intent, however, that customers participating in the Calculated subprogram will continue to participate in the Calculated or other sub-programs after experiencing first hand the reward of reducing energy use and receiving incentives from the utility to overcome the financial barrier.
3. By 2015, and three years thereafter, all measures determined to be “standard practice” are moved out of the Calculated incentive	CEESP Strategy 1-	Replace with: Measures determined to be standard practice are

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program, and replaced by ETP or “Advanced Technology” measures. (Yes/No Metric)	3, p. 53 Statewide PIP p. 23 (PGE)	phased out at various levels of the program [depending on the type of technology within the customer class] and replaced by new, improved or ETP measures. .
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*\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]*

<b>Long-Term Sub-program MT Indicators:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>Metric Type (3)**</b>	<b>Baseline Study Required (Y/N)</b>	<b>IOU Recommendations and Comments</b>
1. Supply of qualified agricultural energy specialists	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	3	Y	Moved to WE&T
2. Percent of customers who go on to implement a long-term energy plan under the Continuous Energy Improvement program as a result of participation in the Calculated sub-program.	CEESP Strategy 2-1, p. 54	3	N	Delete
3. Yes / No - By 2015, and three years thereafter, all measures determined to be “standard practice” are moved out of the Calculated Incentive program, and replaced by ETP or “Advanced Technology”	CEESP Strategy 1-3, p. 53 PIP p. 23 (PGE)	3	Y	Replace with: Measures determined to be standard practice are phased out at various levels of the program [depending on the type of technology within the customer class] and replaced by ETP measures. (Y/N)

*\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]*

*\*\*Metric type: 3 = data collection, tracking, and reporting [by IOUs, CPUC staff, and/or other entities] to be determined later.*

## Agriculture – Pump Test & Repair Subprogram

<b>Mission</b>	
<b>SW Program: Agriculture</b>	The Pump Efficiency Services sub-program aims to overcome key informational, technical, and financial barriers to pump optimization by offering pump tests, retrofit incentives, and targeted education, training and technical support for customers and pump companies. Each IOU's database of pump test results will be used in the near-term to target pumps in need of retrofit as a means to capture savings. However in the mid-term, this pump performance data aggregated at the statewide level will contribute to the development of metrics and targets for pump improvements, in support of the pumping focus in the Agricultural Strategic Plan.
<b>SW Sub-program: Pump Test &amp; Repair</b>	

<b>CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u>:</b>	<b>CA EESP Ref. pp. #</b>
Strategy 1-3: Conduct research & development of new technologies and practices for agricultural efficiency.	p. 53

<b>Short-term (2010-2012) “SMART” <u>Sub-program</u> Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Recommendations and Comments</b>
1. By 2012, increase by X% customers knowledgeable about proper maintenance of pump equipment in order to reduce energy use and associated costs	Statewide PIP, p. 38	<p>Revise to: By the end of 2012, complete a study to determine percent of IOU customers knowledgeable about renovation of pump equipment in order to reduce energy use and associated costs. The baseline will be developed by the end of 2012 via Market Characterization Study.</p> <p>Comment: Currently, ag customers pursue renovation for water volume/flow reasons but do not have good information about baselines related to energy use that would guide a renovation schedule.</p> <p>Need Baseline for costs</p>



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Short-term <u>Sub-program</u> PPMs:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (2a or 2b)**	Baseline Study Required (Y/N)	IOU Recommendations and Comments
1. Percent of ag (non-food processing) pump tests that lead to a repair or replacement.	Statewide PIP, p. 38	2b	N	Revise to: Percent of ag pump tests that lead to a repair or replacement  Comment: Currently, most farmers get their pumps tested for water information, not energy information..
Check (SCE Ind/Ag) evaluation on maintenance issues – 2 <sup>nd</sup> metric needed?				

\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]

\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Recommendations and Comments
1. By 2015 increase by X% the number of participants of the pump test program who continue to maintain their equipment according to industry accepted maintenance schedules.	Statewide PIP, p. 35	Revise to: By 2015 increase by X% the number of participants of the pump test program who renovate their equipment to improve energy efficiency.  Comment: Market Characterization Study will inform utilities on a baseline standard for energy-motivated pump improvements. The X and baseline standard OPE will be provided by the end of 2012.  Study will help to determine a proper time for renovation of the pump. Then the utility can educate the ag customers about the

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best time to renovate.

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<b>Long-Term Sub-program MT Indicators:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>Metric Type (3)**</b>	<b>Baseline Study Required (Y/N)</b>	<b>IOU Recommendations and Comments</b>
1. Percent of participants of the pump test program who continue to maintain their equipment according to industry accepted maintenance schedules	Statewide PIP, p. 35	3	N	Revise to: % of Ag customers renovating their pump after receiving a pump test that shows OPE is above the baseline OPE level determined through the Market Characterization Study.
2. Develop LT metric based on outcome of Market Characterization Study				Delete

*\*SP=Strategic Plan, AL=Advice Letter, DR=Data Request Response, PIP=program plans, Staff=ED proposed. [Include page reference when applicable.]*

*\*\*Metric type: 3 = data collection, tracking, and reporting [by IOUs, CPUC staff, and/or other entities] to be determined later.*