

## 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 Comments</b>
1. By the end of 2012, the percent of participation among customers less than 200kW or 50K therms will be tracked.	DR, IOUs, Staff	Establishing a baseline will require a fairly large and long market study. The need and value of an

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		increase should be defined based on the baseline results.
2. MOVED TO IDSM	Staff, PIPs (SCE p293, PG&E p36)	
3. Replaced by #4	IOUs, Staff	
4. The number of first time participants in energy efficiency programs will be tracked.		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 Comments
1. Number of customers participating in programs (Deemed and Customized) per NAICS code and size (less than 200 kW or 50K therms) (Type 1)	IOUs, Staff	2a	N	In order to track something now that is more easily defined, we have chosen size of customers and their NAICS at facility level.
2. MOVED TO IDSM FOR TRACKING & REPORTING	PIPs	2b	Y	Keep Objective but move metric to IDSM
3. Replaced by #4	IOUs, Staff	2b	Y	
4. Number of first time participants in energy efficiency programs.		2b	N	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" <u>Program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
1. 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	IOUs, Staff	CEI is in a pilot stage now. Define Energy Plan

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end of 2012 based on a baseline study done during this cycle.		
2.	LT SP p. 52	

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<b>Long-Term 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 Comments</b>
1. Percentage of participants in the Agricultural program who go on to implement a long-term energy plan.	IOUs, Staff	3	N	

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*\*\*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

Mission	
SW Program: <b>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
SW Sub-program: <b>Continuous Energy Improvement (CEI)</b>	

CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u> :	CA EESP Ref. pp. #
<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

Short-term (2010-2012) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
<b>Objective 1:</b> 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	Statewide PIP (PG&E) p. 33	
<b>Objective 3:</b> By the end of 2012, the number of Food Processing customers who created an energy plan via CEI will be tracked.	Statewide PIP (PG&E) p. 5	
<b>Objective 2:</b> 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.	Statewide PIP (PG&E) p. 30	
<b>Objective 4:</b> MOVED TO 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 Comments
<b>PPM 1:</b> 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)	PIP	2b	N	
				Moved to PPM 1 above
<b>PPM 4:</b> MOVED TO IDSM	PIP	2b	N	

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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 Comments
<b>Objective 1:</b> By 2015, the number of CEI Food Processing participants who achieve milestones as identified their long term energy plans will reach X. The X will be defined by the end of 2012.	Statewide PIP (PG&E) – p. 30	The number X will be set by the end of 2012 when better visibility on CEI impact will be available.
<b>Objective 2:</b> REMOVE	Statewide PIP (PG&E) p. 5	Recognizing the pilot nature of CEI at this time, the LT Statewide Objective #1 and Indicator #1 address this idea by asking how many customers have a long term energy plan of any kind
<b>Objective 3:</b> 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.		

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Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)	IOU Comments
<b>MT Indicator 1:</b> Number of CEI participants who achieve milestones as identified in their long term energy plans.	PIP	3	N	
<b>MT Indicator 2:</b> REMOVED	PIP	3	N	See LT CEI Objective #2 above and Comments

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## Agricultural – Non-Residential Audit Subprogram

Mission	
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>	

CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u> :	CA EESP Ref. pp. #
<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

Short-term (2010-2012) “SMART” <u>Sub-program Objectives</u> :	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
<b>Objective 1:</b> By the end of 2012 100% of onsite audits offered to large non-residential customers will be integrated. (Keep as an objective but not as a PPM; refer to IDSM)	PIP - p. 3 / D.09-09-047 (p. 215)	Objective remains, PPMs moved to IDSM
<b>Objective 2:</b> By the end of 2012 large onsite non residential audit participants who also participate in another IOU sponsored EE, DR, or DG program will increase by X%. (Keep as an objective but not as a PPM; refer to IDSM)	D.09-09-047, p. 3	Objective remains, PPMs moved to IDSM
<b>Objective 3:</b>	PIP p. 2 Audit Section (audits table)	
<b>Objective 4:</b> By the end of 2012 the number of participants receiving onsite audits will be tracked. (Keep as an objective but not as a PPM; refer to IDSM)	PIP p. 2 Audit Section (audits table)	Objective remains, PPMs moved to IDSM

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Objective 5: By the end of 2012, the number of customers who receive audits that adopt audit recommended measures will increase by X%. (Keep as an objective but not as a PPM; refer to IDSM)	Statewide PIP p. 3 Audit Section	Objective remains, PPMs 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 Comments
PPM 1: REFER TO IDSM	p. 3 – PIP / D.09-09-047 (p. 215)	2a	N	PPM Removed in IDSM; Type 1 Metric
PPM 2: Participation rate of large onsite non-residential audit participants in another IOU-sponsored EE, DG or DR program (Note: audit and implementation may not occur in the same year or portfolio cycle). (Refer to IDSM)	D.09-09-047, p. 3	2a	N	Updated metric to match language in IDSM
	PIP p. 2 Audit Section (audits table)	2b	N	Metric removed because it was not included in IDSM
PPM 4: Participation rate of large onsite non-residential audits by customer class. (Refer to IDSM)	PIP p. 2 Audit Section (audits table)	2b	N	Updated metric to match language in IDSM
PPM 5: # of customers who receive audits that go on to adopt audit recommended measures. (Refer to IDSM)	Statewide PIP p. 3 Audit Section	2B	N	Updated metric to match language in IDSM

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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)*
None proposed at subprogram level. (See program level)	

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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 Comments</b>
None proposed at subprogram level. (See program level.)				

*\*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 – Deemed Incentives Subprogram

Mission	
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>	

CA EESP Goals/Strategies Addressed by SW <u>Sub-program</u> :	CA EESP Ref. pp. #
<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	

Short-term (2010-2012) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
1. 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.	CEESP Strategy 1-3, p. 53 Statewide PIP, (PG&E) p. 23	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 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 Comments
1. Number of new, improved, and ETP measures in the program.	Statewide PIP, (PG&E) p. 23 / CEESP Strategy 1-3, p. 53	2b	Y	Targets request to see "fresh" measures in the catalog being adopted by customers.  Rafi: See previous comment

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Long-Term (2013-2020) "SMART" <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
1. REMOVE	CEESP Strategy 2-1, p. 54	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 subprograms after experiencing first hand the reward of reducing energy use and receiving incentives from the utility to overcome the financial barrier.
2. MOVED TO WET	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	Moved to WET  Rafi: How define qualified? Needs baseline. Why is program being forced to come up with this? Why not the WE&T program?
3. 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	Staff	Standard Practice will be defined by the end of 2012.

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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.		
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Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)	IOU Comments
1. REMOVE	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	3	Y	See comments for LT Objective #1 above
2. MOVED TO WET	CEESP Strategy 1-3, p. 53 Statewide PIP p. 23 (PGE)	3	Y	Move to WET
3. 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)	Staff	3	N	

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## Agricultural- Calculated Incentives Subprogram

	<b>Mission</b>
SW Program: <b>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.
SW Sub-program: <b>Calculated Incentives</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>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" Sub-program Objectives:</b>	<b>Source (SP, AL, DR, PIP, or Staff)*</b>	<b>IOU Comments</b>
1. 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).	CEESP Strategy 1-3, p. 53 Statewide PIP, (PG&E) p. 23	The baseline will be established by analyzing the 2006-2008 calculated projects. Difficulties will come from embedded ET measures in not flagged

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	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 Comments
1. Number of projects with available ETP measures, included.	PIP, (PG&E) p. 23 / CEESP Strategy 1-3, p. 53	2b	Y	

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Long-Term (2013-2020) "SMART" <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
1. MOVED TO WET	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	
2. REMOVE	CEESP Strategy 2-1, p. 54	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. 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.	CEESP Strategy 1-3, p. 53 Statewide PIP p. 23 (PGE )	

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Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)	IOU Comments
1. <b>MOVED TO WET</b>	Statewide PIP, (PG&E) p. 23 / CEESP p. 52	3	Y	<b>MOVE TO WET</b>  RAFI: Need baseline, need to determine if this is indeed a problem and if so, make it a goal for WE&T
2. <b>REMOVE</b>	CEESP Strategy 2-1, p. 54	3	N	Objective #2 removed above. See notes.
3. 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)	CEESP Strategy 1-3, p. 53 PIP p. 23 (PGE)	3	Y	

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## Agriculture – Pump Test & Repair Subprogram

Mission	
SW Program: <b>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.
SW Sub-program: <b>Pump Test &amp; Repair</b>	

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

Short-term (2010-2012) “SMART” <u>Sub-program</u> Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
1. 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.	Statewide PIP, p. 38	Note: 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.  Rafi: Need Baseline for costs

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 Comments

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1.	Percent of ag pump tests that lead to a repair or replacement.	Statewide PIP, p. 38	2b	N	Currently, most farmers get their pumps tested for water information, not energy information.
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\*\*Metric type: 2a = reported annually, 2b = reported by end of cycle.

Long-Term (2013-2020) "SMART" Sub-program Objectives:	Source (SP, AL, DR, PIP, or Staff)*	IOU Comments
By 2015 increase by X% the number of participants of the pump test program who renovate their equipment to improve energy efficiency. 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.	Statewide PIP, p. 35	Study will help to determine a proper time for renovation of the pump. Then the utility can educate the ag customers about the best time to renovate.

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Long-Term Sub-program MT Indicators:	Source (SP, AL, DR, PIP, or Staff)*	Metric Type (3)**	Baseline Study Required (Y/N)	IOU Comments
1. % 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.	Statewide PIP, p. 35	3	N	

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