

DIARY DIGESTER FUNDING MATRIX

Fund/Program	Component Eligible for Use of Funds	Typical Fund Amount	RFP, Grant, or Other	When to Apply	Authorized Purposes	Other information or description	Website link	contact name/number for diaries/developers	contact name/number for Sandy & Paul for fund/program detail
<b>USDA Rural Development Value Added Producer Grants (VAPG)</b>	• Biogas Genset; • Below Ground Digester with Cover; • Digester Heating System; • Digester Mixers; • Gas & Hot Water Equipment; • Hydrogen Sulfide Scrubber; • Influent & Effluent Tank; • Influent Tank; • Nox Controls SCR; • Site Piping; • Solids Separator; • Solids Separator Structure	\$50,000 - \$300,000	Grant	Annual competition at national level.	Value Added: 1) change in product physical state 2) differentiated production or marketing 3) product segregation 4) product produces renewable energy	The more cost effective the project and the more eligible matching funds the applicant provides, the more competitive the application will be.	<a href="http://www.rurdev.usda.gov/BCP_VAPG.html">http://www.rurdev.usda.gov/BCP_VAPG.html</a>	Karen Firestein, Business & Cooperatives Specialist 430 G Street, Agency 4169 Davis, CA 95616-4169 Phone: (530) 792-5829 Fax: (530) 792-5837 karen.firestein@ca.usda.gov	Karen Firestein, Business & Cooperatives Specialist, (530)792-5829, karen.firestein@ca.usda.gov
<b>USDA Rural Development Renewable Energy and Efficiency Grant Program</b> <small>(Farm Bill - Section 9007)</small>	• Biogas Genset; • Below Ground Digester with Cover; • Digester Heating System; • Digester Mixers; • Gas & Hot Water Equipment; • Hydrogen Sulfide Scrubber; • Influent & Effluent Tank; • Influent Tank; • Nox Controls SCR; • Site Piping; • Solids Separator; • Solids Separator Structure	\$2,500 - \$500,000	Grant	Annual competition at national level.	To purchase renewable energy systems and make energy efficiency improvements; renewable energy projects include those for which energy is derived from wind, solar, biomass, geothermal, or for which hydrogen is derived from biomass or water using the previously stated energy sources.	The more cost effective the project and the more eligible matching funds the applicant provides, the more competitive the application will be.	<a href="http://www.rurdev.usda.gov/BCP_Reap.html">http://www.rurdev.usda.gov/BCP_Reap.html</a>	Steven Scott Nicholls Business & Energy Programs Specialist Rural Development U.S. Department of Agriculture 430 G Street, Agency 4169 Davis, CA 95616-4169 Phone: (530)792-5805 Fax: (530)792-5837	Steven Scott Nicholls Business & Energy Programs Specialist Rural Development U.S. Department of Agriculture 430 G Street, Agency 4169 Davis, CA 95616-4169 Phone: (530)792-5805 Fax: (530)792-5837
<b>USDA Rural Development Renewable Energy and Efficiency Loan Guarantee Program</b> <small>(Farm Bill - Section 9007)</small>	• Biogas Genset; • Below Ground Digester with Cover; • Digester Heating System; • Digester Mixers; • Gas & Hot Water Equipment; • Hydrogen Sulfide Scrubber; • Influent & Effluent Tank; • Influent Tank; • Nox Controls SCR; • Site Piping; • Solids Separator; • Solids Separator Structure	Not to exceed \$10 million or 75% of total eligible project cost	Loan negotiated between business and lender: there must be a bank willing to make the loan - USDA only guarantees the loan (business must have strong equity & collateral)	Year-round	To purchase renewable energy systems and make energy efficiency improvements; renewable energy projects include those for which energy is derived from wind, solar, biomass, geothermal, or for which hydrogen is derived from biomass or water using the previously stated energy sources.		<a href="http://www.rurdev.usda.gov/BCP_Reap.html">http://www.rurdev.usda.gov/BCP_Reap.html</a>	Steven Scott Nicholls Business & Energy Programs Specialist Rural Development U.S. Department of Agriculture 430 G Street, Agency 4169 Davis, CA 95616-4169 Phone: (530)792-5805 Fax: (530)792-5837	Steven Scott Nicholls Business & Energy Programs Specialist Rural Development U.S. Department of Agriculture 430 G Street, Agency 4169 Davis, CA 95616-4169 Phone: (530)792-5805 Fax: (530)792-5837
<b>USDA Rural Development Business and Industry Guaranteed Loan (B&amp;I) Program</b>	• Biogas Genset; • Below Ground Digester with Cover; • Digester Heating System; • Digester Mixers; • Gas & Hot Water Equipment; • Hydrogen Sulfide Scrubber; • Influent & Effluent Tank; • Influent Tank; • Nox Controls SCR; • Site Piping; • Solids Separator; • Solids Separator Structure	\$1 million - \$10 million	Loan negotiated between business and lender: there must be a bank willing to make the loan - USDA only guarantees the loan (business must have strong equity & collateral)	Year-round	To improve, develop, or finance business, industry, and employment and improve the economic and environmental climate in rural communities.	Must be engaged in or proposing to engage in a business to provide employment; improve the economic or environmental climate; promote the conservation, development, and use of water for aquaculture; or reduce reliance on nonrenewable energy by encouraging development and construction of solar energy systems and other renewable energy systems.	<a href="http://www.rurdev.usda.gov/BCP_gar.html">http://www.rurdev.usda.gov/BCP_gar.html</a>	Tammy Laizure Area Specialist 150-D Chuck Yeager Way Oroville, CA 95965 Phone: (530) 533-4401 x 131 Fax: (530) 533-4936 tammy.laizure@ca.usda.gov	Tammy Laizure Area Specialist (530)533-4401 tammy.laizure@ca.usda.gov

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<b>USDA NRCS Environmental Quality Incentives Program (EQIP)</b>	Dairy digesters are an eligible practice and in the past five years five have been built in California with one in 2007, two in 2009, none requested in 2009 or 2010, and one being planned for 2012 with the federal cost payment for these five ranging from \$100,000 to \$420,000.	Payment Limitations: Participants may not receive, directly or indirectly, payments that, in the aggregate, exceed \$300,000 for all EQIP contracts entered into during any six-year period. Participants whose projects NRCS determines to have special environmental significance may petition the NRCS Chief for the payment limitation to be waived to a maximum of \$450,000.	Applications are received at local field offices. <a href="http://offices.sc.egov.usda.gov/locations/app?state=CA">http://offices.sc.egov.usda.gov/locations/app?state=CA</a>	Applications accepted on a continuous basis with periodic application ranking cut-offs when applications are ranked for funding. Applications received after the ranking cut-off will be considered in the next ranking period. EQIP cannot provide financial assistance for the same practice enrolled on the same land as any other USDA conservation program	To provide financial and technical assistance for approved conservation practices that address natural resource concerns and for opportunities to improve soil, water, plant, animal, air and related resources on agricultural land and non-industrial private forestland. In addition, a purpose of EQIP is to help producers meet Federal, State, Tribal and local environmental regulations.	A voluntary program that provides financial and technical assistance through contracts up to a maximum term of ten years in length.  Owners of land in agricultural or forest production or persons who are engaged in livestock, agricultural or forest production on eligible land and that have a natural resource concern on the land may participate in EQIP	<a href="http://www.ca.nrcs.usda.gov/programs/eqip/index.html">http://www.ca.nrcs.usda.gov/programs/eqip/index.html</a>	Alan Forkey, Farm Bill Program Manager Phone: 530-792-5653 Email: Alan.Forkey@ca.usda.gov  Erik Beardsley, EQIP Program Specialist Phone: 530-792-5649 Email: Erik.Beardsley@ca.usda.gov	Luana Kiger USDA-NRCS Special Assistant to STC 430 G Street #4164 Davis, CA 95616-4164 Voice: 530-792-5661 Fax: 530-792-5790 Email: Luana.Kiger@ca.usda.gov

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<p><b>California Public Utilities Commission Self-Generation Incentive Program (SGIP)</b></p>	<p>Eligible technologies include wind turbines, electric only fuel cells, organic Rankine cycle/waste heat capture, advanced energy storage (AES), pressure reduction turbines, and combined heat and power (CHP) - gas turbines, microturbines, internal combustion engines, and fuel cells.</p> <p>Only self-generation equipment installed on the customer's side of the electric utility meter is eligible. Typically, equipment must be sized to serve all or a portion of the electrical load at the site.</p> <p>Only commercially available and factory new equipment is eligible for incentives. Rebuilt or refurbished equipment is not eligible to receive incentives under this program.</p>	<p>Incentive (\$/W):                      Wind Turbine \$1.25, Bottoming-Cycle CHP \$1.25, Pressure Reduction Turbine \$1.25, Internal Combustion Engine – CHP \$0.50, Microturbine – CHP \$0.50, Gas Turbine – CHP \$0.50, Advanced Energy Storage \$2.00, Biogas \$2.00, Fuel Cell – CHP or Electric Only \$2.25</p> <p>Additional incentive of 20% will be provided for the installation of eligible technologies from a California supplier.</p>	<p>Reservation Request</p>	<p>Year-round</p> <p>Funds are available 'first-come, first-served' throughout the calendar year. Reservations received after total funds have been committed for a calendar year will be placed on a wait list. Place on the wait list is not secured until the Program Administrator receives all information and documentation required with the Reservation Request Form and the project is determined to meet all eligibility requirements.</p>	<p>Provides financial incentives for the installation of new, qualifying self-generation equipment installed to meet all or a portion of the electric energy needs of a facility. Eligibility for participation in the SGIP is based on greenhouse gas emission reductions. The actual on-site emission rate that projects must beat to be eligible for SGIP participation is 398 kg CO<sub>2</sub>/ MWh.</p> <p>Incentives are administered by utility companies, except for the San Diego Gas &amp; Electric (SDG&amp;E) service territory which is handled by the California Center for Sustainable Energy (CCSE).</p>	<p>AES is eligible as stand-alone or coupled with solar PV or other eligible technologies; must be able to discharge its rated capacity for a minimum of two hours. On-site or in-state directed biogas is eligible as an adder that may be used in conjunction with fuel cells or any conventional CHP technology.</p> <p>Retail electric or gas distribution customers (industrial, agricultural, commercial or residential) of PG&amp;E, SCE, SoCalGas or SDG&amp;E are eligible to apply as the host customer to receive SGIP incentives. Host customer must be the utility customer of record at the site where the generating equipment is or will be located. Any class of customer is eligible to be a host customer in SGIP.</p> <p><a href="http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/">http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/</a></p>			

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<b>California Treasurer's Office CAEATFA Advanced Transportation and Alternative Source Manufacturing Sales and Use Tax Exclusion Program (SB 71 Program)</b>	Property purchased for the design, manufacture, production or assembly of advanced transportation technologies or alternative source – including energy efficiency – products, components or systems.	There are no STE minimum or maximum limits for individual projects. Applicants are required to make at least twenty five (25) percent of the purchases identified in their application within one year of application approval. All purchases must be made within three years following application approval, unless CAEATFA grants a longer time period.		Applications are accepted on an ongoing basis and will be presented at the first meeting occurring at least 60 calendar days after receipt of complete application. Application Fee: equal to .0005 of the total purchase price of qualified property - fee minimum \$250; maximum \$10,000. Fee payment required for a application to be considered complete. Administrative Fee: equal to .004 of the total purchase price of the qualified property purchased - fee minimum \$15,000; maximum \$350,000.	Sales and use tax exclusions (STE) for eligible purchase of qualified property utilized for the design, manufacture, production or assembly of advanced transportation technologies or alternative source – including energy efficiency – products, components or systems.	Applicants must show the property to be purchased will be used to design, manufacture, produce or assemble an eligible advanced transportation technology or alternative source product – including energy efficiency – component or system. This definition includes manufacturers of alternative source electricity generation equipment such as solar panels or wind turbines. But it excludes the purchase of that equipment for power generation.			
<b>California Treasurer's Office California Pollution Control Financing Authority (CPCFA)</b>	Total project components (land, new or rehabed equipment, construction)	Lowered interest rate on total project costs.	Bond sale to support tax exemption and reduced interest rate on loan.	Open	Acquisition, construction, or installation of pollution control, waste disposal, and resource recovery facilities. Includes waste to energy.	This program provides a reduction in interest costs. Apply directly to the CPCFA federal pass through money.			

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<p><b>CEC Public Interest Energy Research Natural Gas (PIER) program</b></p>		<p>Research areas and funding amounts are established annually through a publicly vetted NG Budget Plan. A minimum portion of PIER Natural Gas funds must be spent in California through California-based entities, non-profits, local governments, or research institutions; and funding may not be used for permit costs and expenses associated with obtaining permits including CEQA.</p>	<p>Competitive Solicitation (Grant or RFP)</p>	<p>Annually, upon release/posting of the Program Opportunity Notice (PON)</p> <p>The PON posted on the CEC's website will contain all the materials needed, including electronic files.</p>	<p>Funding for energy efficiency, renewable energy and smart energy infrastructure projects.</p> <p>Projects must be "directed towards developing science or technology, and 1) the benefits of which accrue to California citizens and 2) are not adequately addressed by competitive or regulated entities."</p>	<p>The renewable energy component is the most likely route for funding qualified dairy digester projects. For Fiscal Year 2012-2013, the program will implement an initiative on localized, efficient, and advanced heat and power systems (LEAPS) that will include among its focus area demonstrating combined heat and power systems using biogas and other renewable resources to augment or replace natural gas fired heating and power systems.</p>			
<p><b>CEC Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP) (AB 118)</b></p>	<p>Dairy digester projects are eligible for funding provided there is a clear nexus to transportation fuel use. Dairy digester-scale projects have not been especially competitive for ARFVTP funding relative to larger scale anaerobic or gasification projects that can produce higher volumes of biogas at lower cost. Only two projects have received funding to date using dairy-related waste streams</p>	<p>Funding categories and dollar amounts are established annually in the Investment Plan.</p>		<p>Competitive bid solicitations are issued each 12 to 18 months.</p> <p>The notice posted on CEC's website will contain all the materials, including electronic files, needed for submission</p>	<p>To fund development of transportation-related low carbon biofuels projects and advanced technology vehicle projects. About 25% of funding is allocated to biofuel production, which includes biogas and landfill gas projects.</p> <p>The Energy Commission has issued funding awards to 10 biogas production and feasibility projects totaling \$41 million since 2009.</p>	<p>Applicants must provide 50% cost share to be eligible. Biogas from renewable waste resources are of strong interest to the ARFVT Program due to their very low carbon intensity value and ability to reduce associated air and water emissions. Biogas can be produced from dairies, waste water treatment plant residues, food processing waste streams, municipal waste streams, agricultural or silvicultural operations and landfill operations.</p>			

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<b>CEC Electric Program Investment Charge (EPIC) program</b>	<p>In the Energy Commission's 2012-2014 Proposed Investment Plan, there is a set-aside of \$27 million for bioenergy technology demonstration and deployment projects. Innovative dairy digester projects will be eligible to compete for funding in this category.</p> <p>Though not specifically earmarked to support bioenergy, funding in other program areas, including applied research activities (total proposed budget of \$55 million) and market facilitation (total proposed budget of \$15 million), could be used to support bio-energy development.</p> <p>Southern California Edison Company (SCE), San Diego Gas &amp; Electric Company (SDG&amp;E), Pacific Gas &amp; Electric Company (PG&amp;E), and the California Energy Commission (CEC) will administer the</p>	<p>Proposed Technology Demonstration and deployment award Min \$100,000 up to Max \$5 million.</p> <p>Match funding required of 20% of EPIC funds.</p>	<p>Competitive Solicitation Process. Typical awards will be in the form of a grant.</p>	<p>Annually after the release/posting of the Program Opportunity Notice (PON)</p> <p>The PON posted on CEC's website will contain all the materials, including electronic files, needed for submission</p> <p>Subject to change if changed by the CPUC during their review.</p>	<p>Clean energy technologies and approaches to provide electricity ratepayer benefits, defined as promoting greater reliability, lower costs, and increased safety, with complementary guiding principles that include efficient use of ratepayer monies, societal benefits, greenhouse gas emissions mitigation, low-emission transportation/ vehicles, and economic development for the electric consumers of Pacific Gas and Electric Company, Southern California Edison, and San Diego Gas &amp; Electric.</p>	<p>Minimum of \$9 million per year in technology demonstration and deployment funding is set aside for bioenergy projects out of a total budget for demonstration and deployment of \$45 million (The \$30 million administered by the IOUs does not include this set-aside).</p> <p>The CEC and IOUs administer the funding based on Investment Plans. The Proposed Investment Plans were filed with the CPUC on November 1, 2012 for review within the EPIC Proceeding. The first Investment Plans are scheduled to be approved late Q2 2013.</p> <p><a href="http://www.energy.ca.gov/research/epic/">http://www.energy.ca.gov/research/epic/</a> To subscribe, the CPUC EPIC proceeding is under A. 12-11-001: <a href="http://subscribe.puc.ca.gov/">http://subscribe.puc.ca.gov/</a></p>	<p><a href="http://www.energy.ca.gov/research/epic/">http://www.energy.ca.gov/research/epic/</a></p>	<p>CEC: Mike Gravely Deputy Division Chief of Energy Research &amp; Development 1516 Ninth Street, MS-29 Sacramento, CA 95814-5512 Mike.Gravely@energy.ca.gov 916-327-1370 PG&amp;E: Eileen Cotroneo Regulatory Manager, Energy Proceedings Pacific Gas and Electric Company 77 Beale Street, MC B9A San Francisco, CA 94105 Email: eileen.cotroneo@pge.com Phone: (415) 973-2751 SDG&amp;E: Frank Goodman Senior Technology &amp; Development Advisor Program Manager for EPIC 101 Ash Street, San Diego, California 92101-3017 fgoodman@semprautilities.com (858) 654 1798 SCE: John Minnicucci EPIC Program Manager 2244 Walnut Grove Avenue</p>	<p>CEC: Mike Gravely Deputy Division Chief of Energy Research &amp; Development Division 1516 Ninth Street, MS-29 Sacramento, CA 95814-5512 Mike.Gravely@energy.ca.gov 916-327-1370</p>
<b>CVRWQCB Cleanup and Abatement Account (CAA) (Water Code Sections 13440-13443)</b>				Any time	To provide funding to public agencies for the cleanup or abatement of a condition of pollution when there is no viable responsible party to undertake the cleanup effort.	Projects are reviewed and prioritized based on their benefit to water quality and to the State as a whole. Final decision on which projects are funded is made by a coordinated effort of all nine Regional Boards and the State Board.			
<b>CVRWQCB Waste Discharge Permit Fund (WDPF)</b>				Funds are allocated prior to the beginning of each fiscal year. The review and discussion process begins around January of each year, with a request for contract proposals for the next fiscal year.	While not an absolute requirement, projects typically funded by WDPF should provide a statewide benefit.	Must be related to a water quality impact. Usually turnkey projects for the removal of contaminated material, or the construction of some type of containment barrier or cleanup facility. The State Board has authority to approve projects under \$100,000. Projects over this amount must go before and be approved by the State Board members			

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<b>CVRWQCB Supplemental Environmental Project (SEP)</b>				A proposed Supplemental Environmental Project can be submitted at any time to the Central Valley Regional Water Board. The Board reviews the proposed project, and once approved adds it to a list of approved SEP's for the Region.	To support a specific water quality improvement project. The project must meet certain criteria established in the Statewide SEP Policy.	When the Board issues an Administrative Civil Liability (ACL) Complaint, a discharger could request a SEP as part of the settlement discussion. The discharger not the Board selects the project to receive a portion of their ACL Liability fines. Project must have a specific entity to receive the funds.			
<b>SJVACPD Technology Advancement Program</b>	Dairy digester pilot projects Funds are primarily for the purchase of equipment, installation, and emissions testing. Other expenses such as administrative costs and engineering are ineligible.		RFP	Timing for the RFP solicitation period is variable, with notifications of an open solicitation made through the program's email list as well as through collaborative outreach efforts.		Funding is based on a technology's relevance to the SJVACPD attainment plans for Ozone and PM2.5, with emphasis on reductions in NOX and PM2.5 emissions. Emission reductions for digester projects are considered in comparison to a baseline engine emitting 0.15 g/bhp-hr NOX. Technologies should be an improvement compared to this emission level and show potential to be cost-effective.	<a href="http://www.valleyair.org/TAP">http://www.valleyair.org/TAP</a>	Kevin M. Wing technology@valleyair.org (559) 230-5800	Kevin M. Wing technology@valleyair.org (559) 230-5800
<b>SJVACPD Public Benefit Grant Program</b>	Projects with a focus on biogas upgrade for vehicle fueling that have a public agency as a lead applicant		RFP		To assist local public agencies in the San Joaquin Valley with funds for clean-air projects that provide broad benefits to Valley residents.	Applicants must be local public agencies, and maximum project funding is based on emissions reductions generated by the project.	<a href="http://www.valleyair.org/Grant_Programs/GrantPrograms.htm#PublicBenefitGrantProgram">http://www.valleyair.org/Grant_Programs/GrantPrograms.htm#PublicBenefitGrantProgram</a>	Koshoua Thao weberip@valleyair.org (559) 230-5800	Koshoua Thao weberip@valleyair.org (559) 230-5800
<b>U.S EPA Region 9 Dairy Digester Pilot Project</b>	The Farm Bill is currently waiting either extension of existing or a new Farm Bill. EQIP financial assistance is however available and CA NRCS has been accepting applications and is now doing screening and ranking of those received prior to November 16, 2012.	\$50,000	Funds obligated to the San Joaquin Valley Air Pollution Control District through an interagency agreement.	One-time contribution from EPA which must be spent by September 30, 2013 -- Meaning that the money needs to be obligated by that date, not that it must be spent on a project by that date.	Provide \$50,000 towards a dairy digester pilot project distributed through interagency agreement to SJVAPCD				

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<b>CDFA Dairy Marketing / Environmental Program</b>	Research education, compliance assistance	\$25,000 - \$100,000	Other	Year-round	Food and Agricultural Code Section 61805(d) Enable the dairy industry, with the aid of the state to develop and maintain satisfactory marketing conditions, bring about and maintain a reasonable amount of stability and prosperity in the production of market milk, and provide means for carrying on essential educational activities.	Projects are reviewed and recommended by Dairy CARES Board of Directors prior to CDFA funding.	no website	Casey Walsh-Cady Environmental Scientist CDFA-Marketing 916-900-5154 Casey.Cady@cdfa.ca.gov  Mike Francesconi Auditor CDFA-Marketing 916-900-5138 Mike.Francesconi@cdfa.ca.gov	Casey Walsh-Cady Environmental Scientist CDFA-Marketing 916-900-5154 Casey.Cady@cdfa.ca.gov  Mike Francesconi Auditor CDFA-Marketing 916-900-5138 Mike.Francesconi@cdfa.ca.gov
<i>Proposed</i> <b>CDFA Dairy Biodigester Promotion Program</b>					To leverage coordinated funding and additional grant and competitive funding for projects that research new technologies and demonstrate the viability of dairy digesters in California. Goal is widespread implementation of the technology to address California's energy, climate, and other challenges. (Partnered with USEPA, CalEPA, USDA NRCS, CVRWQCB, CARB, SJAPCD, CEC, CalRecycle, Resources Agency, GO-Biz, CFBF, Western United Dairymen, Sustainable Conservation, project developers, and other stakeholders).	Currently there are only 11 operational dairy digesters in California - USEPA estimates that there is potential for 900, predominantly in the Central Valley. These digesters would reduce greenhouse gas emissions, improve air and water quality, manage odors and nutrients, promote energy security and distributed generation, and stimulate jobs and economic development. In addition, co-digestion with other green waste will provide additional benefits as these technologies are advanced and concepts proven.			
<i>Proposed</i> <b>SoCalGas Biogas Conditioning Service</b>						SoCalGas proposes to design, install, own, operate, and maintain a biogas conditioning/upgrading facility ("BC Facility") on or adjacent to the tariff customer's premises to process raw biogas and upgrade it to the level(s) specified by the tariff service customer. Currently pending CPUC review. Prehearing Conference was held in October 2012.			