

Ventura County Regional Energy Alliance

Response to

**“Call for Abstracts”
For Local Government Partnerships
2009-2011 Program Cycle**

Submitted to

**Southern California Edison Company
Southern California Gas Company**

**Submitted
March 10, 2008**

PART 1. PARTNER INFORMATION

Name of Partner proposing the work;

a) Type of Partnership (select one):

1. Existing Local Government Partner w/IOU

Ventura County Regional Energy Alliance

b) Main contact name, address, phone number, fax number and email address.

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PART 2. PROPOSAL SUMMARY AND BUDGET ALLOCATION

The Ventura County Regional Energy Alliance (VCREA) proposes to join with Southern California Edison Company (SCE) and Southern California Gas Company (SCG) to build on the existing Ventura Partnership Program to:

- Expand the Ventura County Energy Resource Center technical support, trainings and information services in support of State and IOU energy savings goals.
- Implement a model of comprehensive energy savings for public agencies and non-profit service providers, to benefit shared constituents throughout the Ventura County region, including adjacent communities and *servicing all local governments (school districts, water districts, county, etc.)* to advance energy efficiency that leads to energy and demand reduction, carbon reduction and green house gas reductions.
- Leverage utility programs to commercial and residential customer categories through innovative initiative approaches that benefit from economies of scale and maximize energy efficiencies that can be derived from application of new technologies, assistance in implementation and/or direct installation programs.

VCREA proposes a 2009-2011 program which builds on its successes to develop a model of regional collaboration and economies of scale. Beginning in 2004-05 and continuing through the 2006-2008 program cycle, VCREA has worked to identify opportunities and reduce barriers to

implement energy efficiency retrofit projects, as well as manage a comprehensive program of energy savings through technical assistance, training, marketing and outreach efforts. This regional approach has led to developing a momentum which will continue to benefit the target market during the 2009-2011 program cycle, and will lead to increasing energy savings and demand reduction.

As the local partner, VCREA will expand a number of program components beyond its current public agency and non-profit organization clients. Specifically VCREA proposes to develop and expand our “Initiative Programs” to include the business community. VCREA has developed marketing and outreach methods to maximize the likelihood of small business participation; the proposal will capture savings among hard to reach customers in the regional “corner” of utility territory that due to smaller size and economies of scale benefit from consistent/persistent attention of a local office working on their behalf. VCREA addresses the need for an umbrella organization to serve a vast number of small to medium clients; in particular, smaller public agencies that have low levels of participation in standard energy efficiency programs.

VCREA credibility and market penetration creates additional opportunities to provide leveraging into existing SCE programs such as Express Efficiency and the A/C Quality Programs.

The VCREA goal for the 2009-2011 program cycle will be to capture a total of 10,000,000 to 14,000,000 kWh in energy savings and 2,000-2,400 KW in demand reduction. These totals will be achieved from a combination of the listed Program Components and the leveraged (“funneled”) opportunities delivered to other utility programs.

VCREA will also continue its training program providing seminars, executive briefings and other training opportunities to a wide variety of markets within our region. Technical training will be directed to the design and engineering community, building officials and contractors, facility managers and operators, and local policy planners. We will offer six of these seminars each year for a total of 18 over the 3-year program. Additionally, we will offer less technical training to the general community. As in the past, topics will include energy efficiency for business, homeowners, non-profit organizations, etc. and will expand to include green building components, connections to demand reduction applications and support for consumer market transformation efforts incorporated in the Statewide Energy Efficiency Strategic Plan.

VCREA will continue to operate the energy resources center funded by the Partnership Program so that customers have ready access to library materials, tools and technical resources, *Energy Leader* newsletter, website and direct connection to understanding and accessing utility ratepayer funded incentive programs.

Summary of Resource Program Components

1. Retrofit Projects for Public Agencies and Non-Profit Organizations

Background & Rationale

Since 2004, VCREA resource programs have been directed to increasing the energy efficiency of public facilities through retrofit projects. VCREA developed an innovative regional process and program methodology which generates significant energy savings and demand reduction. The key elements of this program include readily available technical support, bid document development, contractor recruitment, project management assistance, etc. VCREA has developed successful techniques to reduce the barriers that stand in the way, starting with project identification, all the way to project completion and audit verification.

Of equal importance are the incentives available to public agencies and non-profit organizations through the Ventura Partnership. The budget constraints that challenge all public agencies make it necessary to provide appropriate incentives to insure that energy efficiency projects stay at the top of local governments' priority lists. The 2009-2011 program cycle coincides with a forecasted statewide budget crisis that will affect all public agencies. Cutting back on incentive programs, especially when "prevailing wage" requirements greatly increase projects costs, will likely slow down program success. The incentives are based on calculated savings and provide the flexibility to create the "tipping point" to advance projects to completion.

Goals

VCREA estimates that 2006-2008 program cycle energy savings will exceed 9.5 million kWh; this is more than 65% above our original goal of 5.7 million kWh. This has been accomplished with incentives that range in average from \$0.125 to \$0.130 per annual kWh saved.

VCREA continues to identify projects to add to its "project pipeline" so that new projects will be poised for 2009 implementation. VCREA projects that 70% of the energy savings will come from lighting related projects; the remaining 30% will come from HVAC, energy efficient motors, VFD's, etc.

Given the projects in the "pipeline," coupled with our ability to identify new projects, VCREA believes that **10,000,000 kWh** is a reasonable goal for the 2009-2011 public agency/non-profit organization components. The energy savings will be coupled to a demand reduction goal of **2,000 KW**.

“Leveraging” Opportunities

During the 2006-2008 program cycle, VCREA was instrumental in introducing and convincing the County of Ventura to pursue the installation of energy management software for networked personal computers and work stations. As a result of VCREA’s persistent action, the County contracted with a vendor to install network energy management software on 5000+ PC’s/workstations. The approximately 1 million kWh savings will be “funneled” into the Express Efficiency program for the appropriate rebate.

Using the County as a “case study” to expand the use of PC/workstations management software to other large network users, primarily school districts, VCREA will establish a 2009-2011 three-year target of 10,000 PC’s; the resultant **2,000,000 kWh** will again be directed into the Express Efficiency program for rebates.

Additionally, VCREA will direct clients into the A/C Quality Program. School districts and smaller local government agencies, as well as the small business community, are excellent candidates for this program. Our goal proposes to direct 500 HVAC units in the A/C Quality Program during the three year program cycle.

Budget

- Energy Efficiency Project Incentives: \$1,300,000
- Specialized Technical Consulting: \$180,000

2. Direct Installation Initiative for Small Business

Background & Rationale

During the 2004-2005 program, VCREA worked regionally to leverage the statewide “BEST” program that was a direct install lighting program for small businesses and other non-residential customers located in eligible cities with large populations. While the program met its goals, it impacted a relatively small percentage of the total number of potential customers within Ventura County just by the nature and constraints of the program.

We believe a greater level of penetration can be achieved through a local and persistent marketing effort. Typical direct install programs can spend only a limited amount of time and effort in acquiring customers. VCREA will aggressively work with the Chambers of Commerce and other local business associations to maximize the number of participants. VCREA will also target other non-residential users such as churches, convalescent facilities and non-profit organizations that may

require multiple contacts from a local resource. VCREA will *not* rely on nor expect our subcontracted installers to market the program; however they will be responsible for documenting the actual work they complete.

We will target the large number of existing T-12 fluorescent fixtures that still dominate lighting in small businesses as described above. Additionally we will use our presence to install CFL's in existing incandescent fixtures, as well as identify other energy efficiency opportunities that would benefit from either a VCREA program incentive or from one of the standard offerings provided by our utility partners.

Goals

VCREA proposes to retrofit 200 linear fixtures per month in small businesses throughout the Ventura county region. This would equal 10 businesses having 20 fixtures each, with a mixture of 2-, 3- and 4-lamp four-foot fixtures. For the purposes of averaging, we are assuming all fixtures based on the wattage of a 3-lamp fixture; that the current T-12 lamp is the 34-watt "Supersaver" variant with magnetic ballast; and, existing wattage for each fixture is assumed to be 108 watts operating 3,000 hours per year.

VCREA will specify a retrofit consisting of high-lumen 800 series T-8 lamps coupled with low-ballast factor (0.71) ballast. Fixture wattage will be 73 watts. During the 3-year program, VCREA proposes to retrofit 7,200 fixtures with an average savings of 35 watts/fixture. Savings will be **756,000 kWh with demand reduction of 252 KW.**

Budget

With a mixture of 2-, 3- and 4-lamp fixtures, the average estimated cost of a contractor-provided retrofit will be \$50 per fixture. The total goal of 7,200 fixtures will cost \$360,000. Estimated marketing and administration costs of this program are \$70,000 for three years.

3. Vending Machine Initiative

Background & Rationale

VCREA created an innovative initiative approach to provide vending machine controllers directly to users during the 2006-2008 program. Recognizing the opportunity to make a simple to install product the "calling card" for energy efficiency programs offered by a local organization, has allowed VCREA to deploy approximately 475 controllers to public agencies and non-profit organizations by year-end 2008. Total savings for this initiative will be in excess of 765,000 kWh. By limiting this pilot program to public agencies and non-profit organizations, we have artificially limited the potential number of controllers that could be installed.

VCREA proposes to expand this program to any user of a refrigerated beverage vending machine, marketing this program through organizations such as the local Chambers of Commerce, as well as working directly with the service companies that maintain the machines and benefit from the leveraging of this initiative approach.

Goals

VCREA proposes to install 1000 new vending machine controllers during the 2009-2011 program cycle. Based on DEER savings of 1612 kWh per controller, this initiative will save **1,612,000 kWh.**

Budget

- Hardware acquisition (at \$165/unit): \$165,000
- Marketing/Administration: \$15,000

4. LED Exit Sign Initiative

Background & Rationale

VCREA created an innovative initiative to provide LED exit signs directly to users during the 2006-2008 program cycle. VCREA acquired the signs; the facility operator was required to install the signs at their own (“sweat equity”) expense. By the end of 2008, we will have provided approximately 1,900 signs to public agencies and non-profit organizations that have the ability to complete installation of a new energy efficiency product that was not readily known and available. Total savings for this initiative will be in excess of 666,000 kWh and a demand reduction of 77 KW. By limiting this pilot program distribution of the new signs to public agencies and non-profit organizations, we have artificially limited the potential number of signs that could be installed.

VCREA proposes to expand this program to any non-residential user within Ventura County. We would focus on the business community as well as those public agencies and many organizations who have not yet taken advantage of the program. We will market this program through organizations such as the local Chambers of Commerce, as well as other service groups that support local business and non-profit executives and boards of directors.

Goals

VCREA proposes to distribute 4000 new LED exist signs during the 2009-2011 program. Based on DEER savings of 351 kWh per sign, this initiative will save **1,404,000 kWh with a demand reduction of 163 KW.**

Budget

- Hardware acquisition (at \$20/unit): \$80,000
- Marketing/Administration: \$15,000

5. Public Swimming Pools

Background & Rationale

The goal of this component will be to improve the efficiency of the many large public swimming pools within Ventura County and encourage more efficient use of natural gas. The program will emphasize the installation of pool covers, high-efficiency replacement heating boilers and controls to optimize the operation of the boiler.

Participants will be directed into the appropriate Express Efficiency rebate as well as consideration as candidates for on-bill financing.

Alternately, VCREA proposes to provide a “performance incentive” to public agency and non-profit organizations. The incentive will require proof of actual energy savings through metering information which separates pool heater gas usage from overall facility usage. A minimum of six months of post-installation usage information will be required. The information will be annualized and compared to the previous year’s usage. VCREA proposes an incentive of \$2.00 per therm based on one year of savings.

Goals

The initial focus will be on the pools operated by school districts and recreation and park districts. The goal will be enroll 50 public pools into this program over the 3 year cycle. Savings for each pool should average a minimum of 2,500 therms per year, 125,000 therms for the program goal.

Budget

Costs for this effort will be covered from the overall marketing and outreach program; there are no unique costs associated with this component.

If the VCREA’s *alternate incentive approach* is used, maximum of \$250,000 would be needed to fund this component.

6. “Smart” Showerhead Pilot Initiative

Background & Rationale

The goal of this component is to increase natural gas savings and water savings by using innovative showerhead technology that goes beyond the current generation of low-flow (maximum

2.6 gallons per minute) showerheads. According to a recent Sempra energy working paper entitled “Showersmart Technology,” significant savings per unit can be harvested with products that go beyond limiting flow rates. Additionally, the working paper cites the fact that many existing showerheads are of the higher-flow 5 gpm variety. The weighted average flow rate for surveyed showerheads was 3.3 gpm.

Showerheads are often turned on and allowed to come up to full temperature (+/-95°F) before the user steps into the shower. Significant amounts of natural gas as well as water are lost in this process. Temperature-sensing showerheads are now available which reduce flow to a trickle unless the person taking the shower turns a switch on the showerhead to resume normal flow.

Savings from the installation of the retrofit smart showerheads result in a deemed savings of 6.80 therms per single family household and 13.61 therms for multifamily households. The weighted average savings is 8.16 therms/unit/year. Additionally water savings is calculated at 2,700 gallons/unit/year.

VCREA proposes a pilot program that would deploy 1,000 units per year at no cost to the end user. We will aggressively seek additional funding from the various water purveyors in Ventura County, who have shown interest in working with VCREA to deploy innovative solutions to water conservation. VCREA will develop a marketing program whose goal will be to deliver the smart showerheads to as many users as possible during the program period. We will partner with water purveyors, housing authorities and other groups to enhance the marketing program.

Goals

Our initial goal will be to install distribute 3000 smart showerheads during the 3-year program. This quantity will yield a weight averaged savings of 24,480 therms and 8.1 million gallon of water annually. We will track the distribution to single versus multifamily households to more accurately quantify actual savings.

Budget

We believe that the best way to insure maximum participation is to incentivize the showerheads as a “no-cost, direct-install option. In large quantities the showerheads can be obtained for \$30 per unit or less.

Hardware cost (not including water utility contribution):	\$90,000
Marketing (not including water utility contribution):	\$45,000

Summary of Non-Resource Program Components

1. VCREA Energy Resource Center

Background & Rationale

The Ventura County Energy Resource Center has become recognized and identified with VCREA for credible technical support, local trainings and information services in support of State and IOU energy savings goals. Providing a local face that remains consistent in the region will help promote greater coordination and integration of efforts that leverage energy efficiency to self generation, demand reduction, green building, recycling, cogeneration, conversion energy and other new approaches to building a network of reliable resources and sustainable practices.

The VCREA regional model is a very cost effective and replicable program for communities with shared interests but limited resources. By example, VCREA has supported joint efforts with Ventura County Green Building Council; Ventura County Planning Department's "Build It Smart" website; Santa Barbara Contractors Association; Ventura /Santa Barbara Chapter of ASHRAE; Mission Chapter of Illuminating Engineers Society; Ventura County Economic Development Association and the Chambers of Commerce within the county. VCREA is called upon by cities and counties throughout the state who consider regional efforts a very useful approach to leveraging and coordinating scarce resources while attempting to meet state mandates for energy and carbon reduction plans.

Goals

VCREA proposes to expand marketing efforts, conduct additional trainings, and provide more support and consultants throughout the region. The emphasis on locally available quality training will continue, as well as more individual project/organizational support to help promote the understanding of energy efficiency as an essential "first step" in building design, and operation; the ability of energy efficiency to provide reasonable "return on investments"; how to finance energy efficiency through incentives, rebates, loans, and tax credits; developing innovative approaches with non-profits to insure energy efficiency retrofit projects are funded and given the value and recognition associated with charitable/donor funded projects.

Budget

- Direct Implementation: \$80,000
- Marketing/Administration: \$15,000

Table 3-1 Energy Savings and Demand Reduction Forecast

Installation Goals	Year #1 – Year #2
Gross Peak Demand Reduction (kW)	2,000 -2,400 kW
Gross Energy Savings (kWh)	10 -14 Million kWh
Gross Therm Savings (therms)	149,480 therms

Table 3-2 Overall Budget Allocation (\$)

Utility Name: Southern California Edison & Southern California Gas		
Item	Program Budget	
	(\$)	(%)
Administrative Costs	600,000	12.9%
Marketing/Outreach Costs	245,000	5.3%
Incentive/Rebate Costs	1,990,000	42.9%
Direct Implementation Costs	1,800,000	38.8%
Total	\$4,635,000	100%

PART 3.

ITEM A. COST EFFICIENCY

Background & Rationale

VCREA is organized as a joint powers public agency available to all local governments with shared powers in common (cities, county, schools/water/special districts). Services from VCREA are intended to minimize duplication, build on economies of scale and leverage all available resources to reduce energy demand, increase energy efficiency, and advance renewable resources. VCREA has been successful in leveraging various financial resources such as utility ratepayer funds with public taxpayer funds, community development block grants, non-profit donor funds, school bonds, and CEC loans to implement energy efficiency retrofit projects. Working in a collaborative governance structure, VCREA has only two employees, and contracts for all other services as necessary, using various other public agencies, technical consultants and business services to fully deploy the mission of the organization and implement programs such as this utility partnership program.

Energy Savings to date:

- 2004-05 Program completed savings: 3,125,949 kwh / 461 KW
- 2006-08 Program to date savings: 7,269,008 kwh / 1,409 KW
- 2009-2011 Program proposed savings: 10- 14,000,000 kwh / 2,000 – 2,400 KW

Goals

Building on the start-up years and development of a project pipeline, VCREA has helped generate \$5,780,000 in projects that have received \$1,518,000 in incentive funds. The average incentive is 26.3% of total project cost. VCREA has helped each public agency identify funds that can be directed to energy efficiency projects.

VCREA proposes to continue as the local utility partner to provide consistent and easily accessible knowledge to advance energy planning, project identification, coordination with water efficiency, recycling, self generation and carbon reduction programs that are expected to compliment and be developed from the cornerstone of energy efficiency.

Table 3-3: Budget (Resource and Non-resource Activities)

Item	Year #1 – Year #2
1) Total Resource Activity Budget (\$)	\$8,735,000
2) Total Resource Activity Budget Sponsored by Partner (\$)*	\$4,300,000
3) Non-resource Activity Budget (\$)	\$400,000
4) Total Non-resource Activity Budget Sponsored by Partner (\$)*	\$200,000
Total Proposed Budget (\$) to IOU = 1) – 2) + 3) – 4)	\$4,635,000

ITEM B. SKILL AND EXPERIENCE

Background & Rationale

In the 2006-08 program cycle, VCREA’s energy savings projects target of 5,700,000 kWh and 1,236 KW was achieved and exceeded (106%) at the 18 month/half way point. A contract amendment was completed with SCE in January 2008 to allow the project pipeline to continue in expectation of an estimated three-year total of 9,500,000 kWh and 1900 KW savings.

In the same period, the non-resource portion of the program completed all the targeted trainings and community outreach events. Additionally, VCREA adopted an innovative approach through *executive briefings* scheduled with specific high level managers that were invited to meet

with an *energy expert*. Many small discussions have occurred in groups of 3 – 8 individuals on such topics as: energy savings in large computer systems, (which translated in funneled savings to SCE); energy savings in LEED rated buildings; and energy savings to reduce the municipal carbon footprint. VCREA has become a reliable resource for current energy data, unbiased reports and technical knowledge to support decisions that advance energy efficiency to high priority.

Successful implementation is due to the experience of the VCREA Board, which is composed of elected officials, and supported by a Technical Advisory Committee of experienced business and energy professionals. VCREA has adopted a collegial “opt in” approach to energy efficiency; “membership” is not a requirement to receive assistance. However, participating organizations must make a commitment of staff time and identify budget resources that will be directed to energy efficiency.

The clear advantage to the participating organizations and the utilities has been the centralized “one stop” resource center provided through the joint (SCE & SCG) partnership effort with VCREA, minimizing *all* administrative costs, and maximizing direct implementation and incentive funds. Experience in similar regional planning, transportation, recycling and air quality issues support the VCREA framework and build success through shared knowledge and economies of scale.

The Ventura Partnership Program has served more than 40 different public agencies with technical support, incentives, and marketing/outreach efforts managed through VCREA staff that brings strong technical and management skills to the day-to-day operation. VCREA is recognized as a capable local resource with an innovative approach.

Goals

Establish stronger relationships with public works directors to advance energy efficiency in water and wastewater treatment facilities, and reduce energy use with water services.

Establish strong relationships with planning agencies to advance higher standards for new development, redevelopment and remodeling construction permits.

Advance relationships with the business community to build capacity for energy service jobs.

Respond with greater detail and coordinate planning among public agencies and organizations that have completed significant energy efficiency savings and seek innovative approaches to demand reduction, self generation and other available best technologies.

Leverage regional leadership to work in greater collaboration and coordination to affect changes with minimum administrative expense or lost opportunities.

ITEM C. DEMONSTRATED COMMITMENT

Background & Rationale

Examples of VCREA's commitment to short-term and long-range plans as demonstrated in a range of efforts:

- VCREA provided significant contributions to the County of Ventura Planning Department's award nominated "Built It Smart Website, which was a year in the making and has led VCREA to develop a new monthly plan review workshop to assist individuals as they prepare to go through the building permit process.
- VCREA coordinated with the County of Ventura, Supervisor's office to support a new policy to reduce permit fees associated with residential solar in the unincorporated areas.
- VCREA helped support the City of Ventura's "get your green on" campaign recently adopted by the City Council; and the City of Ventura took advantage of VCREA's innovative shared employee program, assigning one of their maintenance supervisors to work directly at the VCREA's office over a six month period to learn more about energy efficiency, utility programs and statewide efforts, as well as gain competency in building audits, development of case studies, and leveraging energy efficiency to solar energy applications.
- VCREA has worked with several water districts, public works departments and engineering firms that design and build water treatment facilities in order to make the case and connect energy efficiency to water efficiency; presentations and linkages have been established with the County of Ventura watershed advisory groups.
- VCREA has participated in CPUC Statewide Strategic Planning efforts, and circulates materials as appropriate to elected officials, city managers, business leaders, public agency staff to encourage greater awareness and coordination among various parties.
- VCREA has been called upon to respond to several cities "green and/or climate change plans", providing a regional point of connection and networking efforts.
- VCREA has been called upon by the business community to speak on behalf of energy efficiency and speak as a voice of knowledge and coordination with visiting dignitaries. VCREA is poised to have a larger presence in local and regional conferences.

These examples illustrate the effectiveness of working through a regional approach to assist many public agencies that do not have the resources to individually undertake the combined efforts. Statewide budgetary constraints are expected to tighten individual city budgets, as well as those

of school and water districts. VCREA program has a proven track record that will leverage whatever resources are available to achieve the goals.

Goals

Coordinate with and provide support to parallel energy planning efforts with air pollution control district, planning departments and water agencies.

Provide coordination and support in the development of planning ordinances that go beyond Title 24 codes.

Create green/energy “store front” in collaboration with other public agencies and professional organizations.

ITEM D. PARTNER’S MUNICIPAL FACILITIES AND INFRASTRUCTURE

Background & Rationale

During the 2002-03 organizational efforts, VCREA recognized the need to have an inventory of candidate public buildings and a plan for implementation. With 2004-05 funding, VCREA worked with technical consultants to undertake municipal building audits for three cities. Public agencies have acknowledged the need to have a practical document of “most likely projects” to occur. The value in having an energy plan that identifies most likely projects, yet supports a holistic approach to energy management has been emphasized over creating energy plans that sit on a shelf.

The total amount of municipal square footage for all the public agencies working with VCREA has not been quantified. However, the VCREA approach has been to identify candidate retrofit projects through its staff network and help reduce energy costs, maintenance efforts, and begin to set a course of action (project pipeline) that is funded from a combination of resources, including annual budget appropriations, capital project budgets, community development block grants, CEC loans, bond funds, and enterprise funds. **VCREA’s energy savings history is summarized on the final pages of this Abstract.**

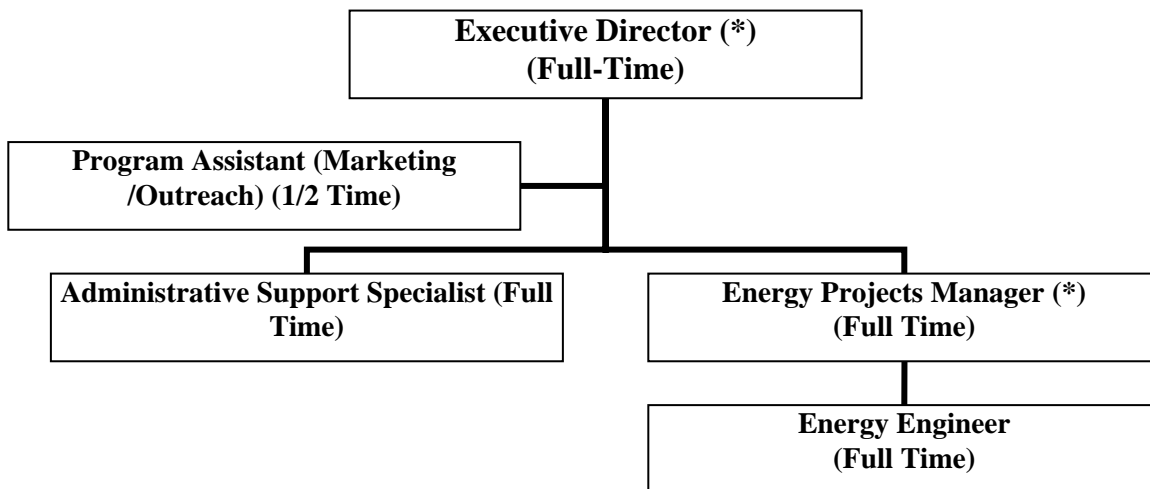
ITEM E. FEASIBILITY

Background & Rationale

In its formation years VCREA developed its own strategic business plan and a marketing plan that has helped leverage the existing utility partnership programs. The plans were intended to provide the foundation to cost effectively coordinate state, county and city efforts through one

regional office. The regional approach has allowed public agencies the opportunity to prioritize energy within their mandated missions of health, safety, and public works functions. It would not be feasible for every city, school district, water district and county office in the region to independently participate in ratepayer funded utility programs; the regional approach is the cost effective for local government and the ratepayers.

Two full-time staff positions have been established (denoted *) and supplemented with a number of technical and service consultants to fill requirements on an “as-needed” basis. VCREA has reached the limits of its own capabilities under the current partnership arrangement and realizes that continuing success will require added staffing. We propose the addition and/or equivalent of three positions to meet the 2009-2011 goals. Even with additional staffing, VCREA will continue to utilize consultant services for various specialized needs such as technical support and training.



ITEM F. INTEGRATED APPROACH

Background & Rationale

VCREA is a model organization to develop and execute energy efficiency programs that can be leveraged through an integrated approach with public agencies. VCREA has engaged with various public agencies and regional organizations to advance self generation programs, water/energy efficiencies, green/sustainable building practices and climate change/carbon reduction efforts to maximize benefits, streamline customer contacts, and achieve a multitude of energy savings.

Goals

Assist public agencies and organizations that have achieved significant energy efficiencies to establish internal “project pipelines” that network between departmental functions in order to achieve short-term goals/objectives and support long-range strategies.

Provide technical services to connect customers to utility programs, incentives and rebates by reaching out to customers that do not have minimum internal support and/or designated utility representatives.

Expand support to new or developing programs such as County of Ventura’s “Build It Smart” website, and their recent fee waiver/incentive for residential solar permits.

ITEM G. COMPREHENSIVENESS

Background & Rationale

VCREA expects to continue in its efforts to develop and execute energy efficiency programs that can be leveraged through a comprehensive approach with public agencies, businesses and community organizations. VCREA is ready to advance utility programs and “third party” contracted programs when advised of such opportunities. As the local partner, VCREA is readily available to advance programs that may be most beneficial to the local economy, including agricultural and water/energy programs. Ventura County has a strong history of land use planning that supports the agricultural industry, promotes sustainable practices, and encourages green building. Various public agencies recognize the need to have plans and programs in place to respond to public interest, and will rely on VCREA to provide the technical and program support.

Goals

Connect public sector, community organizations and commercial customers to utility programs, incentives and rebates that may be under utilized or unknown by reaching out to customers that do not have minimum internal support and/or designated utility representatives.

Provide technical support services to public agencies and organizations that lack expertise to readily identify manage and measure the benefits of energy efficiency projects; link utility customers to standard and custom rebate/incentive programs; bundle similar projects from various small agencies that can benefit.

Continue to deploy technical services to develop and implement VCREA’s innovative *Initiative Program* to uniquely advance and exercise standard utility rebate programs to customers through sweat equity, group installations and other economies of scale.

ITEM H. INNOVATION AND REFLECTS THE STRATEGIC PLANNING PROCESS

VCREA has undertaken initial steps toward coordination of a comprehensive planning process and development of templates that “jump start” smaller public agencies and commercial customers. VCREA has provided technical and on-line references, as well as practical templates to encourage energy efficiency building strategies and energy efficiency plan for employees. VCREA has engaged with planning, public works and general service directors to advance the dialogue on strategic planning, developer’s agreements and certification processes that ensure sustainable energy efforts. VCREA is involved with local business leaders to advance the subject of sustainable energy planning through potential conferences, expos and economic delegations. VCREA has participated in the recent Statewide Energy Efficiency Planning Process. VCREA is an innovative local government approach designed to meet the challenge of 21st century energy savings and corresponding environmental and economic opportunities.

TABLE ONE: VCREA PROJECTS COMPLETED THROUGH 3/7/2008

JURISDICTION	FACILITY	PROJECT DESCRIPTION	KWH/YR SAVINGS	DEMAND REDUCTION
2004-2005 PROGRAM				
COUNTY OF VENTURA	GOVT CTR HALL OF ADMIN	COOLING TOWER FAN VFD'S	93,892	11
COUNTY OF VENTURA	646 COUNTY SQ. DR.	HVAC REPLACEMENT	97,470	35
COUNTY OF VENTURA	TODD RD. JAIL	LIGHTING UPGRADE - PHASE I	313,506	54
COUNTY OF VENTURA	TODD RD. JAIL	INSTALL VFD ON ELECTRIC CHILLER	272,536	30
COUNTY OF VENTURA	SIMI VALLEY LIBRARY	LIGHTING UPGRADE	50,165	8
COUNTY OF VENTURA	GOVT CTR HALL OF ADMIN	REPLACE 75-HP SUPPLY & 15-HP RETURN FANS	38,650	4
COUNTY OF VENTURA	TODD RD. JAIL	LIGHTING UPGRADE - PHASE II	37,693	7
COUNTY OF VENTURA	OXNARD AIRPORT	LIGHTING UPGRADE	132,477	13
CITY OF OXNARD	DEL NORTE TRANSFER STA	LIGHTING UPGRADE	224,356	23
CITY OF VENTURA	BOOSTER STA ZONE 330	INSTALL VFD'S ON 3 100-HP PUMPS	292,413	73
CITY OF VENTURA	SAN JON MAINT YARD	FACILITY LIGHTING UPGRADE	156,036	39
CITY OF VENTURA	CITY HALL	LIGHTING UPGRADE	222,403	16
CITY OF VENTURA	DOWNTOWN PARKING GAR.	LIGHTING UPGRADE	83,255	7
CITY OF VENTURA	POLICE& FIRE HQS	LIGHTING UPGRADE	144,952	19
CITY OF VENTURA	CITY HALL	OUTSIDE AIR LOCKOUT ON E. WING CHILLER	14,704	0
CITY OF VENTURA	CITY HALL	INSTALL VFD'S ON E. WING MULTIZONE AIR HANDLERS	79,309	9
CITY OF VENTURA	POLICE& FIRE HQS	RETROFIT TO ALL VARIABLE SPEED CENTRAL PLANT	124,046	14
CITY OF VENTURA	POLICE& FIRE HQS	INSTALL VFD ON HOT WATER PUMP	19,605	2
CITY OF VENTURA	BEACH PARKING GARAGE	LIGHTING UPGRADE	127,686	9
CITY OF THOUSAND OAKS	MUNICIPAL SVC CENTER	PARKING LOT LIGHTING UPGRADE	49,450	0

CITY OF THOUSAND OAKS	CIVIC ARTS PLAZA	LIGHTING UPGRADE	296,409	64
CITY OF THOUSAND OAKS	WASTEWATER PLANT	LIGHTING UPGRADE	254,936	24
		SUBTOTAL	3,125,949	461
2006-2008 PROGRAM (TO DATE)				
CO. OFFICE OF EDUCATION	CAMARILLO A.P. FACILITIES	LIGHTING UPGRADES	221,771	63
CO. OFFICE OF EDUCATION	CARL DWIRE SCHOOL	REPLACE 12 PKG HVAC UNITS	37,400	11
CO. OFFICE OF EDUCATION	BOSWELL SCHOOL	LIGHTING UPGRADE	77,880	28
CO. OFFICE OF EDUCATION	CARL DWIRE SCHOOL	LIGHTING UPGRADE	62,809	23
CO. OFFICE OF EDUCATION	MEDIA CENTER	LIGHTING UPGRADE	18,940	6
CO. OFFICE OF EDUCATION	PENFIELD SCHOOL	LIGHTING UPGRADE	53,411	18
CITY OF OXNARD	VARIOUS LOCATIONS	LED TRAFFIC LIGHT RETROFIT - PHASE I	534,738	120
CITY OF OXNARD	VARIOUS LOCATIONS	LED TRAFFIC LIGHT RETROFIT - PHASE II	522,954	172
CO. OF VENTURA	669 CO. SQUARE DR	HVAC REPLACEMENT	89,968	13
CO. OF VENTURA	CAMARILLO AIRPORT	LIGHTING UPGRADE	268,660	72
CO. OF VENTURA	HALL OF ADMINISTRATION	VFD CHILLER RETROFIT	246,025	30
CO. OF VENTURA	FILLMORE LIBRARY	LIGHTING UPGRADE	9,521	4
CO. OF VENTURA	HALL OF ADMINISTRATION	STAIRWELL LIGHTING UPGRADE #1	13,834	1
CO. OF VENTURA	CAMARILLO POLICE DEPT	LIGHTING UPGRADE	72,865	19
CO. OF VENTURA	HALL OF ADMINISTRATION	STAIRWELL LIGHTING UPGRADE #2	6,591	0
CO. OF VENTURA	GOVERNMENT CENTER	FOUNTAIN PUMPS & VFD'S	14,202	5
CO. OF VENTURA	HCA - KNOLL DR.	LIGHTING UPGRADE	169,574	38
CO. OF VENTURA	VENTURA CO. MEDICAL CTR	LIGHTING UPGRADE	821,395	120
CO. OF VENTURA	EAST VALLEY SHERIFFS STATION	LIGHTING UPGRADE - INTERIOR ONLY	139,376	26
CO. OF VENTURA	A. SOLIZ LIBRARY	LIGHTING UPGRADE	7,429	3
CO. OF VENTURA	H.P. WRIGHT LIBRARY	LIGHTING UPGRADE	30,470	14
CO. OF VENTURA	FIRE STATION 40	LIGHTING UPGRADE	9,664	0
CO. OF VENTURA	FIRE STATION 54	LIGHTING UPGRADE	9,664	0
CO. OF VENTURA	HALL OF JUSTICE	STAIRWELL LIGHTING UPGRADE	15,005	1
CO. OF VENTURA	SATICOY LIBRARY	LIGHTING UPGRADE	5,904	3
CO. OF VENTURA	EAST VALLEY SHERIFFS STATION	PARKING LOT LIGHTING REPLACEMENT	87,688	16
CO. OF VENTURA	HCA - F.A.B. BUILDING	LIGHTING UPGRADE	61,217	14
CO. OF VENTURA	HCA - WEST VENTURA CLINIC	LIGHTING UPGRADE	45,528	8
CO. OF VENTURA	HCA - SANTA PAULA HOSPITAL	LIGHTING UPGRADE	117,876	16
CO. OF VENTURA	HCA - INPATIENT CLINIC	LIGHTING UPGRADE	144,977	32
CITY OF THOUSAND OAKS	HILL CANYON WWTP	REPLACE DIAPHRAGM SLUDGE PUMPS	103,973	12
CITY OF THOUSAND OAKS	TEEN CENTER	REPLACE HVAC UNITS	47,870	37
CITY OF THOUSAND OAKS	SENIOR CENTER	REPLACE HVAC UNITS	64,576	45
CITY OF VENTURA	SATICOY PUMP STATION	300-HP MOTOR & VFD INSTALLATION	772,089	69
CITY OF VENTURA	FOSTER PARK - NYE WELL	15-HP MOTOR & VFD INSTALLATION	59,495	5
CITY OF VENTURA	WESTPARK GYMNASIUM	HI-BAY LIGHTING REPLACEMENT	16,208	4
CITY OF VENTURA	CITY HALL - NORTH (505 POLI ST.)	1ST FLOOR LIGHTING UPGRADE	8,424	3
CABRILLO ECONOMIC DEV. CORP.	ADMIN OFFICES	LIGHTING REPLACEMENT	54,100	14

CONEJO PARK & REC DISTRICT	BORCHARD COMM. CENTER	GYMNASIUM LIGHTING UPGRADE	23,040	5
CONEJO PARK & REC DISTRICT	1000 OAKS COMM. CENTER	GYMNASIUM LIGHTING UPGRADE	40,279	8
CONEJO PARK & REC DISTRICT	BORCHARD COMM. CENTER	INSTALL SEER 15 HEAT PUMPS (16 TONS)	6,957	16
US NAVY - VENTURA NAVAL BASE	PORT HUENEME	HI-BAY LIGHTING REPLACEMENT	604,030	156
US NAVY - VENTURA NAVAL BASE	POINT MAGU	HI-BAY LIGHTING REPLACEMENT	24,227	5
OJAI UNIFIED SCHOOL DISTRICT	DISTRICT OFFICES	LIGHTING UPGRADE	10,046	3
OJAI UNIFIED SCHOOL DISTRICT	NORDHOFF H.S.	LED EXIT SIGNS (16)	5,616	1
OJAI UNIFIED SCHOOL DISTRICT	NORDHOFF H.S.	GYMNASIUM LIGHTING UPGRADE	51,100	15
OJAI UNIFIED SCHOOL DISTRICT	MATILJA JR H.S.	GYMNASIUM LIGHTING UPGRADE	23,085	8
TRINITY LUTHERAN CHURCH	CHURCH FACILITIES	LIGHTING UPGRADE	17,721	10
THACHER SCHOOL	MUDD SCIENCE CLASSROOMS	LIGHTING RETROFIT	35,832	14
THACHER SCHOOL	GYM & DINING HALL	LIGHTING RETROFIT	52,150	14
CASITAS MUNICIPAL WATER DIST.	CASITAS TREATMENT PLANT	VFD ON 75-HP RECLAIM PUMP	79,918	0
ASSOC OF RETARDED CITIZENS	MULTICULTURAL CENTER	LIGHTING REPLACEMENT	33,828	12
ASSOC OF RETARDED CITIZENS	MULTICULTURAL CENTER	HVAC REPLACEMENT	6,873	3
LED EXIT SIGN INITIATIVE	REGIONWIDE	INSTALLED UNITS TO DATE:	636,363	74
VENDINGMISER INITIATIVE	REGIONWIDE	INSTALLED UNITS TO DATE:	573,872	0
		SUBTOTAL	7,269,008	1,409
TOTALS TO DATE			10,394,957	1,870