

ENERGY WORK GROUP - PKJ (Energy-PKJ)

Supporting Organizations: California State University, Fresno, Great Valley Center, San Joaquin Valley Clean Energy Organization

ACTIONS	STATUS	2007-2009 - FINAL REPORT ACTIVITIES
OVERALL WORK GROUP STAFFING REQUIREMENTS		
Plan, organize and manage all work group meetings; maintain work group records and minutes; maintain Energy portion of Partnership web site; provide monthly and quarterly reports.	O N G O I N G	Held Energy Work Group meetings at least bi-monthly through public meetings of the SJVCEO Board of Directors. These meetings were regularly attended by 20-30 people from across the region in person and through telecommunication.
Goal 1: Develop a comprehensive regional plan and implementation structure for efficient energy use and clean renewable technologies.	<input checked="" type="checkbox"/>	
Objective A: Establish a regional San Joaquin Valley clean energy organization (SJVCEO) to develop plan and implement programs for energy efficiency and clean energy.	C	The top priority of the Energy Work Group during this period was development and start-up operation of the San Joaquin Valley Clean Energy Organization (SJVCEO). The SJVCEO serves as the principal agency that implements Energy Work Group recommendations and represents the Partnership on clean energy matters. These steps have been successfully completed; SJVCEO is about to begin its third year of operation.
Initiate and complete "Design Phase" of the SJVCEO.	C	The design phase was completed in August 2007. The first SJVCEO board meeting was held in September 2007 and the board has met on a bi-monthly basis since then. We filed for nonprofit status with the IRS in 2008 ; the SJVCEO was formally recognized as a nonprofit by the IRS in September 2008.
Secure funding to launch the office.	C	We secured a seed grant from the Partnership in 2007 to begin start-up operation of the SJVCEO. This grant was successfully completed in December 2008. In addition, we secured federal, California State University, Fresno Foundation, utility funding and private sponsorships to fund the projects and activities of the SJVCEO and have put the organization on the road to financial sustainability.

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Identify initial pilot projects, secure funding to implement.	C	These pilot projects were successfully launched with Visalia, Arvin, Fresno and Stockton to help make these communities more green and sustainable. Funding was secured for these projects. In addition, we signed an MOU with the National 25x'25 Initiative to make the San Joaquin Valley a national pilot for development and use of renewable energy. These pilots led the SJVCEO to set three areas of focus for the organization: 1) Greening the Valley's communities; 2) Increasing Valley-based production and use of fuels and power from renewable sources; and 3) Growing a green collar workforce in the Valley.
Begin full-scale operation by end of 30 month contract.	C	This was successfully accomplished by June 30, 2009.
Objective B: Develop a comprehensive regional clean energy plan for the San Joaquin Valley.	IP	We have initiated work on this objective on several fronts.
Develop work plan.	IP	As a first step in developing the plan, we identified regional renewable energy projects in place and in the pipeline. The SJVCEO Board performed an assessment and determined that the San Joaquin Valley could conservatively meet its future additional needs for electricity through Valley-based renewables and could significantly contribute to the state's need for additional power generated by renewable forms of energy. A preliminary scope of this plan was prepared.
Secure funding to complete the plan.	C	The preliminary scope of development was funded through the Partnership seed grant. Additional funding will have to be secured to fully develop the plan.
Completion of the regional clean energy plan.	IP	The SJVCEO will partner with the San Joaquin Valley Air Pollution Control Air District and stakeholders to develop this plan—hopefully by late 2009.

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<p>Objective C: Seek an “increased share of “public goods charges revenue” for funding energy efficiency programs from CPUC in portion to regional population.</p>		<p>This goal was expanded to include increasing the share of public goods funding coming into the Valley AND increasing federal funding coming into the Valley for clean energy funding. To focus on federal funding opportunities, we focused primarily on American Recovery and Reinvestment Act (ARRA) funding in the first half of 2009.</p>
<p>Complete assessment of public goods funding returning to the Valley.</p>	IP	<p>Preliminary assessment of public goods funding completed. This will be updated as needed.</p>
<p>Analyze the data; develop recommendations to correct the discrepancy.</p>	C	<p>The SJVCEO Board decided on a two-part strategy to correct funding discrepancies.</p>
<p>Implement strategies to increase public benefit funding.</p>	IP	<p>Our two-part strategy involved: 1) Strengthening our partnerships with utilities and aggressively seeking utility funding for the Valley; and 2) Identifying projects and opportunities and pursuing ARRA clean energy funding for the Valley. We have been very successful in carrying out both of these strategies.</p>
<p>Goal 2: Increase efficient energy use in all sectors.</p>	<input type="checkbox"/>	
<p>Objective B: Increase efficient energy use in rural communities.</p>		
<p>Develop pilot projects.</p>	C	<p>With funding available through the Partnership, we established pilot projects in Visalia, Arvin and in unincorporated rural Fresno County locations. In addition, we hosted a Farming Clean Energy Forum in November 2008 to identify and help develop clean energy opportunities in rural locations in the Valley.</p>
<p>Secure funding.</p>	C	
<p>Conduct pilots.</p>	IP	<p>The Arvin Project will be completed in September 2009. The other pilots have been completed.</p>

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Expand to additional locations.	IP	We are aggressively expanding this work to other locations in the Valley through 1) our VIEW partnership with all jurisdictions in Tulare County; and 2) large and small jurisdictions as ARRA grant funding is available through the State Energy Program and Energy Efficiency and Conservation Block Grant program. See additional information in other parts of this report.
Objective E: Support project based learning in schools to demonstrate the positive role that clean energy can play in improving air quality and reducing greenhouse gas emissions.		
Identify best practice school programs.	C	We identified best practices as part of our efforts to develop a green collar workforce in the Valley
Pursue and secure grant funding to develop school programs.	IP	In the last half of calendar year 2009, we will pursue funding to develop school programs with ARRA green collar workforce development funding available from the California Energy Commission and the U.S. Department of Labor.
Goal 3: Advance energy self sufficiency and grow the economy through development of clean, renewable technologies.	<input type="checkbox"/>	
Objective A: Work with state agencies to explore and demonstrate innovative approaches to increase use of renewable energy, including trading of net metering credits, streamlining the requirement for interconnection to the grid, and structuring incentives for renewable energy production.	IP	We are pursuing exploration of innovative approaches to increase use of renewable energy on several fronts. Barriers to increased use of renewables has been a prime topic at numerous SJVCEO Board meetings as well as the principal focus of the Farming Clean Energy Conference hosted by the SJVCEO and attended by more than 200 participants. Barriers and opportunities have been identified by the SJVCEO; we will work with Secretary Kawamura and Secretary Chrisman to develop demonstration projects on certain technologies.
Assess and rank opportunities.	IP	A preliminary assessment has been done by the SJVCEO Board.
Develop and introduce new approaches.	IP	We expect work to begin on this in the last half of 2009

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Objective E: Implement community choice energy aggregation projects.		
Provide technical assistance to KCRD and participating government entities on clean energy as needed.	IP	Monitored progress made by Kings River Conservation District and the San Joaquin Valley Power Authority implementing Community Choice Aggregation. When requested, will provide information to jurisdictions in the Valley on Community Choice as part of our work to make our Valley jurisdictions more green and sustainable.
Develop a case study and communicate successes of CCA throughout the region.	NP	It does not appear that the case study is still required.
Goal 5: Promote the region as an international leader for clean energy research, development, and use.	<input type="checkbox"/>	
Objective A: Work with economic development agencies at local, state, and federal levels to incubate, grow and attract clean energy companies.	IP	
Work with economic development organizations to develop a database of clean energy companies in the Valley.	IP	The SJVCEO is doing this as part of the effort to bring ARRA project funding into the Valley and ensure that Valley-based clean energy companies are aware of these project opportunities
Serve as a clearinghouse of information on clean energy companies.	IP	In Progress. We are doing this through the SJVCEO web site, which has been operational since early 2008.
Objective B: Work with community colleges, trade unions and Workforce Investment Boards to ensure that there is an adequately trained workforce for the clean energy industry.	IP	
Begin an inventory of clean energy training programs offered around the country.	IP	In Progress. Green workforce development is one of three key focus areas for SJVCEO. This inventory has been developed by the Green Workforce Development Committee of the SJVCEO Board.
Advocate for the development of additional training capacity for clean energy jobs.	IP	The SJVCEO has offered comments and support for training for green workforce development.

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Objective D: Develop and implement innovative cutting-edge clean energy demonstration projects.		
Conduct outreach to universities, labs, CEC, DOE and research facilities.	IP	In addition to conducting outreach to specific stakeholders, the SJVCEO has worked with congressional staffers to gain their support for 1) establishing the SJVCEO as a regional renewable energy demonstration site for the National 25x'25 Initiative (accomplished in November 2007) and 2) establishing the San Joaquin Valley as a regional demonstration site for the Obama Administration's clean energy initiatives. (This is still under discussion.)
Convene meetings with universities, labs, CEC, DOE and research facilities to develop research partnerships and funding.	IP	Numerous research ideas have been identified and discussed with SJVCEO board, staff and stakeholders.
Challenges/Problems/Bottlenecks/Feedback encountered during the quarter		The major challenge has been sticking to our priorities given the huge array of clean energy opportunities that we have identified.
New funds leveraged during the quarter.		We have leveraged funds from the U.S. Department of Agriculture, Valley Clean Air Now (Valley CAN), Southern California Edison and Pacific Gas and Electric, corporations, private sponsors, and several jurisdictions .

ENERGY WORK GROUP-ICWT (Energy-ICWT)

Supporting Organizations: International Center for Water Technology, California State University, Fresno, Great Valley Center

ACTIONS	STATUS	2007-2009 - FINAL REPORT ACTIVITIES
Goal 4: Improve energy efficiencies in the management and use of water.	<input checked="" type="checkbox"/> IP	Through all Fresno State water entities (CIT, CWI, ICWT) coordinate with GVC and other facilitation entities as well.
Objective A: Convene a State summit to identify/adopt converged water-energy conservation activities.		
Objective B: Design and implement an innovative energy conservation program in water management to include education, diagnosis, and repair/retrofit of equipment for agricultural, water delivery, and wastewater treatment facilities.	IP	Via Center for Irrigation Technology Ag. Pump Efficiency Program administered for PG&E & SCE throughout SJV. Project funded 4th time through 2011
Objective C: Design and implement an innovative energy conservation program in water management for urbanized communities.		
<i>Support Water Work Group and ICWT leadership on these objectives.</i>		
Goal 5: Promote the region as an international leader for clean energy research, development, and use.	<input type="checkbox"/> IP	Through efforts of ICWT/CVBI WET Lab on-campus. Major SJV regional Technology conference scheduled for April 2010
Objective A: Work with economic development agencies at local, state, and federal levels to incubate, grow and attract clean energy companies.		
Work with economic development organizations to develop a database of clean energy companies in the Valley.		
Serve as a clearinghouse of information on clean energy companies.		
Objective B: Work with community colleges, trade unions and Workforce Investment Boards to ensure that there is an adequately trained workforce for the clean energy industry.	IP	In partnership with CVBI-RJI and other economic development & job development entities.
Begin an inventory of clean energy training programs offered around the country.		
Advocate for the development of additional training capacity for clean energy jobs.		
Objective C: Encourage and support public and private agencies to use and showcase clean energy technologies.	IP	CWI/ICWT working with Mendota Advanced Bioenergy Beet Cooperative to establish biorefinery
Conduct outreach.		
Market the showcase sites.		

ENERGY WORK GROUP-ICWT (Energy-ICWT)

Supporting Organizations: International Center for Water Technology, California State University, Fresno, Great Valley Center

ACTIONS	STATUS	2007-2009 - FINAL REPORT ACTIVITIES
Objective D: Develop and implement innovative cutting-edge clean energy demonstration projects.		
Conduct outreach to universities, labs, CEC, DOE and research facilities.		
Convene meetings with universities, labs, CEC, DOE and research facilities to develop research partnerships and funding.		
Challenges/Problems/Bottlenecks/Feedback encountered during the quarter		State & Federal emphasis on Green Energy may lead to an SJV boom in developing and implementing these types of technologies
New funds leveraged during the quarter.		

ENERGY WORK GROUP-GVC (Energy-GVC)

Supporting Organizations: California State University, Fresno, Great Valley Center

ACTIONS	STATUS	2007-2009 - FINAL REPORT ACTIVITIES
Plan, organize and manage all work group meetings; maintain work group records and minutes; maintain Energy portion of Partnership web site; provide monthly and quarterly reports.	O N G O I N G	USED INFORMATION SUBMITTED FOR COUNTY IMPACT SHEETS FOR STANISLAUS, MERCED AND TULARE COUNTIES
Goal 2: Increase efficient energy use in all sectors.	<input type="checkbox"/>	
Objective A: Establish a Clean Vehicle Information Exchange Program.		
<i>Support CALSTART and Air Quality Work Group efforts on this objective.</i>		
Objective C: Develop and implement program to encourage EnergyStar standards for new buildings.		
Inventory Valley case studies of Energy Star buildings.		
Develop and execute communications plan to promote adoption of Energy Star buildings.		
Objective D: Support adoption of green building ordinances by all local jurisdictions in the Valley.	C	Helped acquire Department of Energy loan for Los Banos almond hull plant.
Collect model green building ordinances.		
Develop and execute communications plan to promote adoption of EnergyStar buildings.		
Goal 5: Promote the region as an international leader for clean energy research, development, and use.	<input type="checkbox"/>	
Objective A: Work with economic development agencies at local, state, and federal levels to incubate, grow and attract clean energy companies.		
Work with economic development organizations to develop a database of clean energy companies in the Valley.		
Serve as a clearinghouse of information on clean energy companies.		
Objective B: Work with community colleges, trade unions and Workforce Investment Boards to ensure that there is an adequately trained workforce for the clean energy industry.		Working with Stanislaus and Merced counties' community colleges and universities to develop a 'green' workforce.
Begin an inventory of clean energy training programs offered around the country.		
Advocate for the development of additional training capacity for clean energy jobs.		
Objective C: Encourage and support public and private agencies to use and showcase clean energy technologies.		

ENERGY WORK GROUP-GVC (Energy-GVC)

Supporting Organizations: California State University, Fresno, Great Valley Center

ACTIONS	STATUS	2007-2009 - FINAL REPORT ACTIVITIES
Conduct outreach.	C	Through PG&E, provided small business refrigerator assessments in Los Banos and provided city pool energy assessment in Oakdale. Facilitated joint regional wastewater project by Modesto and Ceres to provide tertiary treatment and surplus water.
Market the showcase sites.		
Objective D: Develop and implement innovative cutting-edge clean energy demonstration projects.		
Conduct outreach to universities, labs, CEC, DOE and research facilities.		
Convene meetings with universities, labs, CEC, DOE and research facilities to develop research partnerships and funding.		
Challenges/Problems/Bottlenecks/Feedback encountered during the quarter		
New funds leveraged during the quarter.		