



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: John Stufflebean

SUBJECT: ANNUAL SUSTAINABLE ENERGY POLICY REPORT FOR 2005
DATE: 1-4-06

Approved

Date

1/11/06

RECOMMENDATION

It is recommended that Council:

1. Approve the 2005 Annual Report on the Sustainable Energy Policy and proposed 2006 Action Plan;
2. Direct staff to report on the status of implementation and attainment of the Policy and Action Plan on an annual basis.

REPORT IN BRIEF

The Sustainable Energy Policy-2005 Annual Report provides information on the status of implementation of the Sustainable Energy Policy and FY 2004 Energy Action Plan. An Action Plan for FY 2006 is also presented, along with proposed longer-term actions.

BACKGROUND

On April 1, 2003, Council adopted the Sustainable Energy Policy and corresponding Action Plan. Within that Policy, staff was directed to report on the status of implementation and attainment of the adopted Policy and action plan on an annual basis.

The goals of the San José Sustainable Energy Policy are to:

- Lead by example in pursuing the most efficient use of energy in City facilities and activities.
- Explore opportunities to improve energy reliability, supply and price stability to meet current

and future needs.

- Promote collaboration on energy issues.
- Promote and achieve a cleaner and healthier environment, including improving air quality and reducing greenhouse gas emissions.
- Encourage the development and use of renewable energy sources and alternative fuels.

ANALYSIS

Action Plan for FY 2004-05

The following high priority actions, based on criteria of cost, available staff resources, and the resultant benefits, were adopted as the Action Plan for FY 2004-05.

- Continue the 12% energy reductions in city facilities.
- Identify funds for the continued development of the Sustainable Energy Revolving Loan Fund program. Subsequently, in April 2005, the Council adopted the establishment of the City-Building Energy Projects Program (C-BEPP) with an initial allocation of \$56,483. Within the approved 2005-06 CIP budget, a five year allocation of \$65,000 was allocated for both the Public Safety and Communities/Parks CIP allocation for energy installations.
- Identify and secure sources of funds for community residential and business sector energy programs, such as the 2006 public goods monies.
- Work with the PBCE department and the Coyote Valley Task Force to ensure the development of sustainable buildings within Coyote Valley.
- Monitor and report energy use reductions and the corresponding carbon dioxide reductions to Sustainable Silicon Valley.
- Continue to monitor legislative and regulatory activities related to energy.
- Work with Finance Department and other departments on the implementation of the Environmentally Preferred Purchasing Policy in order to continue the purchase of energy star products and other energy efficiency items.
- Continue to strive to achieve the goal of five renewable energy systems on city facilities by December 2008.

The attached report provides a complete summary of the results of the FY 2004-05 Action Items. Key highlights of the report include:

- Since April 2001, City Departments have achieved an overall 18% reduction in electricity usage, exceeding the 12% goal established by the Mayor.
- City departments have avoided more than \$17 million in electricity utility expenditures since April 2001 through a combination of behavioral changes and energy efficiency improvements. The largest savings have been at departments with enterprise funds—Environmental Services Department/Water Pollution Control Plant, Airport and the Convention Center.
- The City's Building Energy Projects Program was established and initial funding of \$56,483 allocated for various public safety and parks projects.
- The *Silicon Valley Energy Program (SVEP)*, a collaboration between the City of San Jose and PG&E was awarded \$2.2 million by the California Public Utilities Commission to establish a program that will provide larger, generous new lighting rebates for small businesses, continue the educational workshops in the South Bay, provide energy audits to municipal facilities, conduct outreach and provide financial incentives for new commercial, municipal, and private sector construction projects, and assist in a study for upgrading energy and building codes.

As a result of that program, More than 600 small businesses received direct incentives and installation of energy efficiency measures totaling \$850,000, equating to 1,163kW of energy saved.

- Forty-two classes or workshops were sponsored by the Silicon Valley Energy Program on energy technologies or green/sustainable building technologies attended by members of the public and six departments from throughout the City.
- The Housing department served 30 households to date with the installation of energy efficiency equipment (furnaces, lighting, energy star appliances) with another 160 in the process. With the final payment received from Calpine/Bechtel donation, additional households can be served.
- The City has joined with major businesses and organizations throughout Silicon Valley and the State in working with Sustainable Silicon Valley to reduce carbon dioxide emissions. The emission reductions achieved as a result of the energy reductions within City facilities equate to reducing over 89,000 metric tons of carbon dioxide. Another way of saying this is that more than 19,000 cars were not driven for one year, or 30,000 tons of waste were recycled instead of landfilled.
- As part of ESD's interaction with the development and planning for Coyote Valley, a *Sustainable & High Performance Buildings Summit* was held in June of 2005. Over 200 attendees were able to learn from experts in the field of green building, energy efficiency and financial incentives and opportunities. This effort linked with the major land use developments currently undergoing master plan reviews—Coyote Valley, Vision North San Jose and the Evergreen area. The information presented at the Summit will help to form the basis for the design guidelines for those land use plans.

Action Plan for 2006

The proposed actions and activities for 2006 are outlined in the attached report. One significant highlight for the next three years is that the City has been named as one of 30 local government programs that will collaborate with PG&E to conduct energy programs throughout their community during the years 2006-08. With funding projected at \$20M and pending final negotiations with PG&E in collaboration with the CPUC, the Silicon Valley Energy Program, the collaboration between the City of San Jose and PG&E, will concentrate on conducting programs within Santa Clara County that will:

- Provide approximately \$10M for the direct installation of energy efficiency measures for the residential, multi-family, small business, and government sectors.
- Continue the successful Energy Education programs that will provide up-to-date information on energy, green building and renewable energy technologies and applications.
- Provide additional facility audits for the government sector.
- Continue the Savings By Design technical assistance program

PUBLIC OUTREACH

This report was shared with PG&E, Sustainable Silicon Valley, the San Jose Silicon Valley Chamber of Commerce and the Silicon Valley Leadership Group.

COORDINATION

Preparation of this document and report was coordinated with the Budget Office and the City Attorney's office and departments representing the members of the City's Interdepartmental Energy Team: General Services, Library, Airport, Fire; Housing, Planning, Building and Code Enforcement, Parks, Recreation and Neighborhood Services, Public Works, Convention and Cultural Facilities, Police, Transportation, Office of Economic Development and Environmental Services.

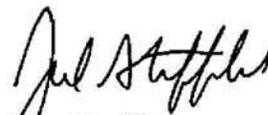
COST IMPLICATIONS

The 2005 action plan items were undertaken by the City's Interdepartmental Energy Team, a multi-departmental effort. This team is coordinated by General Services and Environmental Services Department staff. ESD staff will continue to provide overall coordination for the proposed 2006 actions, and will work with staff throughout the City to explore alternative

sources of funding. In addition, many of the energy programs that the City has undertaken have been funded by grants.

CEQA

Not a Project.


John Stufflebean
Director, Environmental Services Department

Attachment

CITY OF SAN JOSE
SUSTAINABLE ENERGY POLICY
2005 ANNUAL REPORT

JANUARY 2006

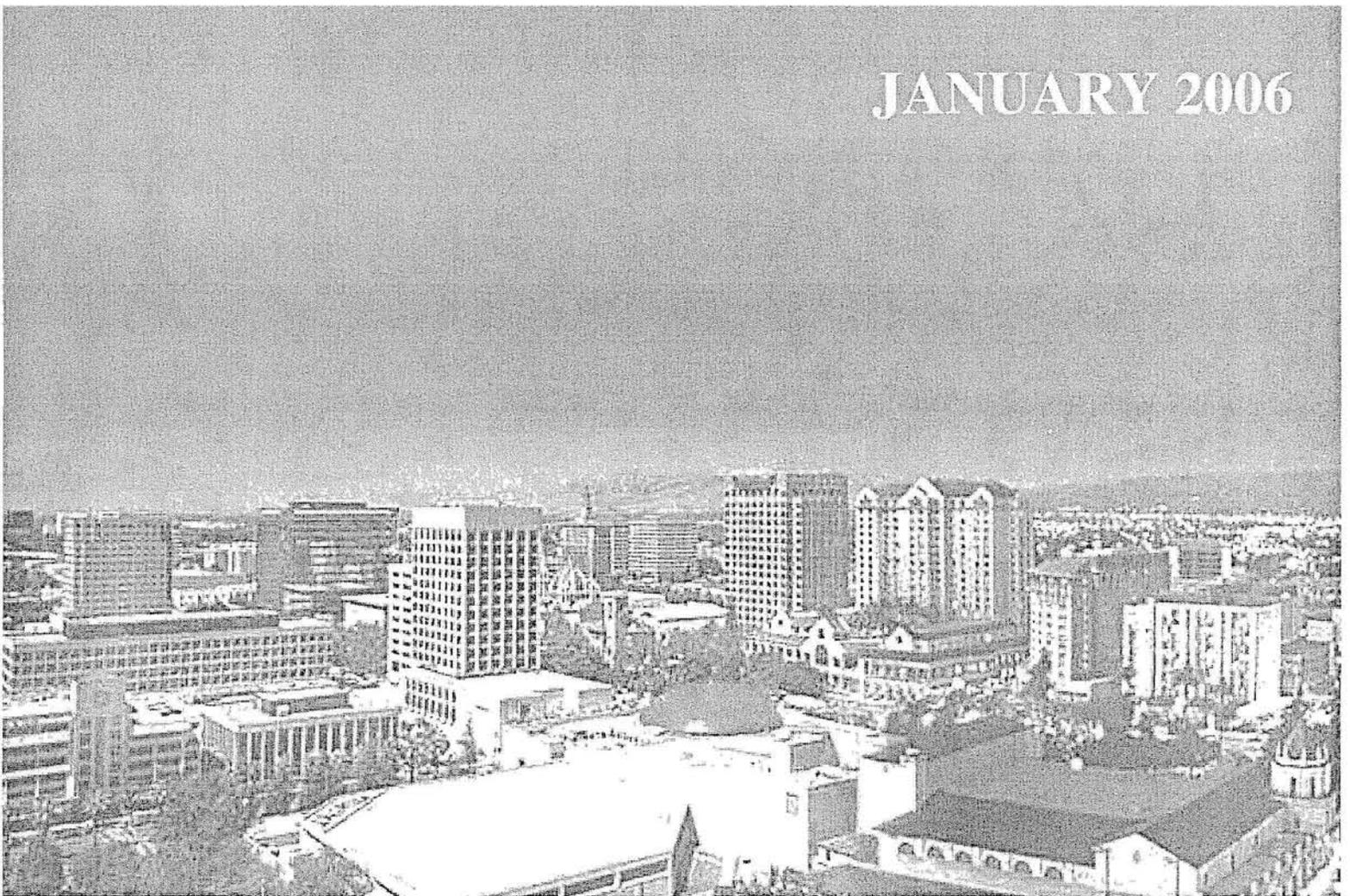


TABLE OF CONTENTS

BACKGROUND		3
ENERGY GOALS AND POLICIES—ACTIONS ACHIEVED & RECOMMENDATIONS FOR ACTION IN 2006		
Goal 1:	Lead by Example in pursuing the most efficient use of energy in City facilities and activities.	4
Goal 2:	Explore opportunities to improve energy reliability, supply and price stability to meet current and future needs.	9
Goal 3:	Promote collaboration on energy issues.	13
Goal 4:	Promote and achieve a cleaner and healthier environment, including improving air quality and reducing greenhouse gas emissions.	15
Goal 5:	Encourage the development and use of renewable energy sources and alternative fuels.	17
LINKAGES TO UN ENVIRONMENTAL ACCORD		18



BACKGROUND

On April 1, 2003, Council adopted the Sustainable Energy Policy and corresponding Action Plan. The goals of the San José Sustainable Energy Policy are to:

- Lead by Example in pursuing the most efficient use of energy in City facilities and activities.
- Explore opportunities to improve energy reliability, supply and price stability to meet current and future needs.
- Promote collaboration on energy issues.
- Promote and achieve a cleaner and healthier environment, including improving air quality and reducing greenhouse gas emissions.
- Encourage the development and use of renewable energy sources and alternative fuels.

A complete copy of the Sustainable Energy Policy follows. An annual report was provided to Council in November of 2004, along with an action plan for the year 2005. This report provides a report on the implementation of those items, along with proposals for the 2006 Action Plan.

Goal I. Lead By Example In Pursuing The Most Efficient Use Of Energy In City Facilities And Activities

Many successes have been achieved within this Goal and corresponding policies. New facilities continue to use the high performance design assistance offered through PG&E's *Savings by Design Program*. In addition, the efforts of the City's Interdepartmental Energy Team in saving energy in their own facilities continues. Establishment of a separate funding allocation for the installation of energy efficient measures through the City's Building Energy Projects Program (C-BEPP) ensures the installation of those measures in public safety and parks facilities. One of the key issues facing the Energy Team will be to establish clear performance measures of energy savings, since many new facilities have been opened—tracking those new facilities will help ensure the City's continued success in saving energy.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
<p>I.A. Maximize opportunities for saving energy in all new city facilities, and city-funded projects through strategies such as building automation systems, building orientation considerations, daylighting and lighting controls and efficient lighting, cool roofs and mechanical systems</p>	<ul style="list-style-type: none"> - All new city facilities participate in the Savings by Design (SBD) Program, which encourages high-performance building design and construction. The <i>Savings by Design</i> program offers incentives up to \$150,000 per project to help compensate the investment in energy-efficient buildings. Thirty-six city facilities have, or intend to participate in the SBD program. 	<ul style="list-style-type: none"> - Continue to participate in SBD for all new City facilities that are eligible for this program. - Participation in the SBD program has the potential of an incentive payment of \$107,000 from the analysis that the North Concourse of the Airport exceeds Title 24 State energy standards by 16%. - Coordinate with green building program to identify opportunities to link energy savings with LEED implementation - Continue to work with Public Works and other departments on new facilities and the energy saving opportunities available to them - Coordinate with City departments to ensure tracking and measurements.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<ul style="list-style-type: none"> - The New City hall achieved 27.4% higher than Title 24 state energy standards, and as such, received a \$150,000 incentive award from PG&E's SBD for implementing various energy efficiency measures. 	
<p>I.B. Maximize opportunities for saving energy in all <u>existing</u> city facilities through strategies such as building automation systems, lighting controls and efficient lighting, cool roofs and mechanical systems</p>	<ul style="list-style-type: none"> - Overall, city facilities achieved an 18.34% reduction in energy consumption compared to an established baseline. This reduction equates to nearly 141 million kilowatt hours conserved, resulting in \$17.64 million in avoided energy expenditures. - Audits completed in 2003 identified energy cost saving measures in 12 facilities, which were then funded as a result of the establishment of the City Building Energy Project Program (CBEPP). Procurement of equipment is in progress, with installation anticipated to be administered through in-house resources - Further audits were conducted on 12 city facilities as part of the Silicon Valley Energy Program (SVEP), a joint program between the City and PG&E. Funding for parks/public safety buildings was allocated through the CBEPP and installations anticipated by June of 2006 	<ul style="list-style-type: none"> - Work with the Interdepartmental Energy Team to review and recommend new reporting activities which take into account the new facilities that have been added to the city's reporting mix - Audit city facilities through the services of the 2006-08 SVEP program - Prioritize the 2006-08 SVEP municipal incentives when available for use in the appropriate city facilities. - Continue to work with interdepartmental energy team to identify opportunities for both behavioral and actual implementation activities that save energy - Work with PG&E on SBD for major retrofit projects - Continue to use CBEPP funding for energy efficiency installations as identified within energy audits.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<p>Convention Center/Center for Performing Arts:</p> <ul style="list-style-type: none"> - As a result of an energy management study conducted by the Silicon Valley Energy Program, significant opportunities for energy and annual costs savings were identified. Improvements to the cogeneration system at a proposed project cost of \$200,000 will yield annual cost savings of \$400-600K. The request for action will be submitted by Team San Jose as part of a mid-year budget request 	
	<p>Department of Transportation:</p> <ul style="list-style-type: none"> - The Environmental Services Department worked with the Department of Transportation to identify incentives from PG&E in the amount of \$363,000 related to the installation of LED traffic lights at 675 intersections and pedestrian walkways. 	<ul style="list-style-type: none"> - Continue to work with the Department of Transportation to identify other energy cost savings measures.
	<p>Airport:</p> <ul style="list-style-type: none"> - The Central Plant received a renovation of motor controls that updated the equipment to variable speed drives. This retrofit has reduced the energy consumption of the Central Plant by approximately 15.8% from last year. - Installation of window shades along the connection bridge between 	<p>Airport:</p> <ul style="list-style-type: none"> - Conduct pilot projects to install shades or additional window film in Terminal A Hold Room(s) to mitigate solar load heat gains - Investigate additional software to allow control of sequencing chiller plant operations to minimize peak electrical consumption

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<p>Baggage Claim and Terminal A Ticket Lobby has reduced the solar gain on the bridge.</p> <ul style="list-style-type: none"> - Retrofits of 50 exit signs in Terminal A with LED technologies have occurred. - Applied window stain to skylights in Terminal A Hold room to minimize solar load heat gains. 	
<p>I.C. Increase energy innovativeness by implementing creative energy projects and financing mechanisms</p>	<ul style="list-style-type: none"> - In November 2004, the Council approved the establishment of the City Building Energy Project Program (C-BEPP) to support the procurement and installation of twelve identified energy efficiency retrofits in existing Parks and Public Safety facilities. An initial funding allocation of \$56,000 was approved by the City Council for the energy projects. Currently, equipment is being researched for procurement, with installation to be completed by the General Services Department. 	<ul style="list-style-type: none"> - Continue to access CBEPP funding through the approved 5 year CIP budget allocations for public safety (\$65,000) and parks (\$65,000) projects. Work with General Services and other Departments to identify energy projects in city facilities. - Begin to explore Energy Service Companies (ESCOs) as an opportunity to achieve additional energy savings opportunities - Work with SVEP and the 2006-08 funding allocations as available for the installation of energy measures in municipal buildings
<p>I.D. Educate San Jose residents, businesses and schools about the multiple benefits of energy efficiency and renewable energy</p>	<ul style="list-style-type: none"> - As part of the SVEP Program, 42 educational workshops were conducted on various energy efficiency, green building and renewable energy have been held at the Silicon Valley Chamber of Commerce since the inception of the program. More than 300 professionals within the Bay area have attended the classes 	<ul style="list-style-type: none"> - Continue SVEP 06-08 educational programs as funding becomes available. - Expand energy workshops to low-income residents. Use remaining \$15,000 within Calpine funding allocation to ensure effective outreach to low-income residents of San Jose

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<ul style="list-style-type: none"> - Working with the Planning, Building & Code Enforcement Department, a <i>Sustainable & High Performance Buildings Summit</i> was held in June of 2005 for developers, builders, and architects. More than 200 attendees were able to learn from experts in the field of green building, energy efficiency and financial incentives and opportunities. This linked with the major land use developments currently undergoing master plan reviews—Coyote Valley, Vision North San Jose and the Evergreen area. The information presented at the Summit will help to form the basis for the design guidelines for those land use plans. 	
<p>I.E. Ensure that the City's Environmentally Preferable Purchasing Policy includes guidelines for purchasing energy efficient equipment and appliances</p>	<ul style="list-style-type: none"> - This item will be reported on by the Finance Department to the Making Government Work Better Committee in early 2006 	

Goal II. Explore Opportunities To Improve Energy Reliability, Supply And Price Stability To Meet Current And Future Needs

The City continues to monitor activities related to new regulations, legislation and other opportunities that will help to meet the adopted policies within this second goal. In particular, staff continues to participate in the Local Government Partnerships established by California's utilities at the direction of the California Public Utilities Commission. The Silicon Valley Energy Program—the partnership between PG&E and the City of San Jose, with the participation of many cities within Santa Clara County—continues to provide much needed energy services to residents, businesses and municipalities.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
<p>II.A. Work with the community and other public and quasi-public agencies to ensure energy supply reliability and price stability (<i>Council-adopted 11/00</i>)</p>	<p>– City staff monitor the actions, hearings and programs of the California Public Utilities Commission (CPUC) and the California Energy Commission (CEC) for actions/regulations, etc. that would impact the City.</p>	<p>– Continue to monitor CPUC and CEC</p>
	<p>– One of the key issues being monitored relates to Community Choice Aggregation (CCA). As a result of the passage of AB 117, cities and counties can now form CCA in order to serve the energy requirements of their local residents and businesses, enabling them to purchase power on behalf of the community.</p> <p>The CPUC has conducted a two phased proceeding to address the numerous issues involved in the development and establishment of CCAs. Phase I addressed rates, tariffs and cost allocation issues. Phase II will consider cost responsibility</p>	<p>– Staff continues to monitor the issues and documents related to Community Choice Aggregation. Staff also continues to coordinate with various cities within California on these activities. At this point, because of the numerous legal, regulatory and staff resources needed to establish a local CCA, only San Francisco is anticipated to be the first to submit a implementation plan to the CPUC for implementation. Staff will continue to monitor these activities to identify the opportunities for San Jose involvement.</p>

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<p>issues, communication and notification responsibilities, customer protection, service fees and other issues. A draft decision has been released with a final decision in late December or early January 2006.</p>	
	-	<p>- <u>Natural Gas Procurement</u>—Staff continues to explore the opportunities for 3rd party suppliers for the natural gas commodity to meet the City’s supply needs. Staff is exploring these opportunities to ensure competitive pricing of the city’s natural gas accounts as compared to PG&E.</p>
<p>II.B. Use innovative approaches to gain greater control of the City’s energy future and retain more financial investment within the community</p>	<p>- <u>Silicon Valley Energy Program</u></p> <p>In March of 2004, the City entered into an agreement with PG&E to conduct the Silicon Valley Energy Program with an initial funding of \$516,000 for the City with total funding for the entire program of \$2.2M. The highlights of that program are as follows:</p> <ul style="list-style-type: none"> - More than 600 small businesses received direct incentives and installation of energy efficiency measures totaling \$850,000, equating to 1,163kW of energy saved 	<p><u>Silicon Valley Energy Program</u></p> <ul style="list-style-type: none"> - The City has been named as one of 30 local government programs that will collaborate with PG&E to conduct energy programs throughout their community during the years 2006-08. With total project funding projected at \$20M and pending final negotiations with PG&E in collaboration with the CPUC, the Silicon Valley Energy Program, the collaboration between the City of San Jose and PG&E, will concentrate on conducting programs within Santa Clara County that will: <ul style="list-style-type: none"> o Provide approximately \$10M for the direct installation of energy efficiency measures for the residential, multi-family, small business, and government sectors

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<ul style="list-style-type: none"> - 42 classes on various energy efficiency, green building and renewable energy have been held at the Silicon Valley Chamber of Commerce since the inception of the program. More than 300 professionals within the Bay area have attended the classes. - Energy Audits have been performed on 12 City of San Jose facilities and 12 facilities for other Santa Clara County cities. Funds to implement those energy recommendations are being identified. - The Savings by Design Program has provided, or will provide technical assistance to a total of thirty-six City-owned projects. 	<ul style="list-style-type: none"> o Continue the successful Energy Education programs that will provide up-to-date information on energy, green building and renewable energy technologies and applications. o Continue the Savings By Design technical assistance program - Explore innovative funding mechanisms used by others, such as state of California, for installation of solar PV for their applicability to San Jose. - Research Energy Service Companies and other 3rd Party Energy Financing companies as a potential venue for financing energy efficiency installations.
	<p><u>Housing/Low Income Weatherization Program</u></p> <p>An agreement between the City and Calpine/Bechtel provided \$1M to be allocated to low-income San Jose residents for energy efficiency activities. In November 2004, Council approved a program that was leveraged with the City's Housing Department. \$700,000 of the fund was allocated for additional energy improvements. In the first part of 2005, ESD and the Housing Department established the guidelines for the program, including the implementation activities</p>	<ul style="list-style-type: none"> - Continue the Energy Efficiency Program and add the remaining funds (\$285,000) from the Calpine/Bechtel agreement to the weatherization program. - Use \$15,000 of the remaining funds for energy education and outreach to the low-income community.

	<p>(purchasing, measure identification, processing) that will be conducted for this program.</p> <p>To date, 30 low-income families have received energy efficiency improvements, including energy star appliances, window and furnace replacements and water heater replacements.</p> <p>There are approximately 240 projects in the process of receiving proposals for rehabilitation, and it is estimated that 160 of those homes will have a need for energy efficiency improvements.</p>		
II.C	Continue to identify appropriate locations in the region for appropriate new power plants that will protect our economy	No activities conducted	– Activities as needed and as resources are available
II.D	Consider small—clean and green—power plants that can be built faster and relieve demand on the power grid	No activities conducted	– Activities as needed and as resources are available
II.E	Work with local and state agencies to ensure that power generation facilities are built in a manner that does not significantly impact environmental resources	No activities conducted	– Activities as needed and as resources are available

Goal III. Promote Collaboration On Energy Issues

The City of San José participates and collaborates with many organizations and cities throughout the area on our common goals to improve the environmental and promote sustainable energy policies.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
<p>III. A. Create and Sustain partnerships to promote joint action to achieve citywide energy goals</p>	<ul style="list-style-type: none"> - The City continues to be active with area governments and organizations in order to further the goals of San Jose as a Sustainable City and the adopted Sustainable Energy Policy: <ul style="list-style-type: none"> - Participation with the Silicon Valley Leadership Group on energy and environmental issues - Actively working with five area cities—Milpitas, Gilroy, Los Gatos, Sunnyvale and Mountain View—on the implementation of the 04-05 Silicon Valley Energy Program (SVEP) - Coordination with Energy Coordinators throughout California on key issues affecting municipalities through the Local Government Commission 	<ul style="list-style-type: none"> - The proposed 2006-08 Silicon Valley Energy Program, if funded, will allow for interaction with all of the cities within Santa Clara County on the implementation of energy efficiency, green building and renewable energy activities. In addition to working directly with the cities, we have also made contacts with the Santa Clara County Cities Association to facilitate and coordinate programs. - Continue to participate with the Silicon Valley Leadership Group on energy and environmental issues. - Continue the coordination with energy managers throughout California through the Local Government Commission.
<p>III. B. Work with various community, business and governmental organizations to promote sustainable energy policies</p>	<ul style="list-style-type: none"> - Continued participation in the Sustainable Silicon Valley (SSV) partnership—which assists in enhancing regional environmental conditions through the reduction of greenhouse gas emissions - 	<ul style="list-style-type: none"> - Continue to participate in the Sustainable Silicon Valley partnership.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
	<p>—as a result of energy conservation and efficiency programs within the City. The first annual report to SSV was submitted in April 2005. The City's efforts outlined a 25.2% decrease in carbon dioxide emissions, primarily as a result of energy reductions within participating city facilities.</p> <ul style="list-style-type: none"> – The emission reductions achieved as a result of the energy reductions within City facilities equate to reducing over 89,000 metric tons of carbon dioxide. Another way of saying this is that more than 19,000 cars were not driven for one year, or 30,000 tons of wastes were recycled instead of landfilled. 	
<p>III. C. Support local, state and federal legislation and regulation that provides for the goals of this energy plan</p>	<ul style="list-style-type: none"> – Regularly review legislation and present to Council as part of legislative review process. In particular, the recently proposed Proposition 80—related to energy regulation—was reviewed and issues presented to Council for their subsequent adoption of a “no” position. 	<ul style="list-style-type: none"> – Continue to identify and provide legislative reviews to Council on energy legislation and regulatory issues.
<p>III. D. Promote San Jose as a city of choice for manufacturers of clean energy technologies</p>	<ul style="list-style-type: none"> – Working with the Office of Economic Development, ESD regularly provides information on energy opportunities for business for inclusion on the OED website. 	<ul style="list-style-type: none"> – The effort will continue, along with the provision of additional information related to new incentives and educational opportunities.

Goal IV. Promote and achieve a cleaner and healthier environment, including improving air quality and reducing greenhouse gas emissions

The City has taken a lead in working within the community to promote the reduction of greenhouse gas emissions both through the use of alternative vehicles and in long term planning for smart growth activities.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
<p>IV.A. Reduce petroleum consumption in municipal fleets through improvements in fleet fuel efficiency, the use of highly efficient and alternative fuel vehicles and alternative fuels</p>	<ul style="list-style-type: none"> - Current City Policies requires that no new vehicles be purchased. 	<ul style="list-style-type: none"> - Once a new policy is adopted and vehicles can again be purchased, ESD stands ready to assist in the recommendation of alternatively fueled vehicles.
	<ul style="list-style-type: none"> - The City participates in the <i>Spare the Air Campaign</i>. The Spare the Air Program was established by the Bay Area Air Quality Management District to educate people about air pollution, and to encourage them to change their behavior to prevent it. Spare the Air days are called when the possibility arises that the area will exceed federal standards for healthy air. San Jose participates in the Spare the Air Employer Network, informing the City's workforce of impending Spare the Air days, educating employees about the ways individuals can improve air quality, and motivating them to take action. 	<ul style="list-style-type: none"> - Continue to participate in the Spare the Air Campaign.
<p>IV. B Encourage reduced petroleum consumption in the private sector through improvements in fleet fuel efficiency, the use of highly efficient</p>	<ul style="list-style-type: none"> - The City is a founding member of the Silicon Valley Clean Cities Coalition (SVCCC), a partnership of public, private agencies, businesses, and interested 	<ul style="list-style-type: none"> - The City intends on continuing our participation and coordination with the Silicon Valley Clean Cities Coalition.

<p>and alternative fuel vehicles and alternatives fuels</p>	<p>citizens dedicated to the advancement of alternative fuels in order to improve the air quality of the Silicon Valley</p> <p>SVCCC sponsors workshop and alternative vehicle fairs aimed to introduce the general public to the variety of available cars. Their website-http://www.svcleancities.org also has a buyers guide for alternatively fueled vehicles and their available incentives.</p>	
Policies	2005 Actions/Accomplishments	2006 Proposed Actions
<p>IV.C Support and expand the City's smart growth policies which lead directly to improved air quality through reduced vehicle miles traveled</p>	<p>– As part of ESD's interaction with the development and planning for Coyote Valley, a <i>Sustainable & High Performance Buildings Summit</i> was held in June of 2005. Over 200 attendees were able to learn from experts in the field of green building, energy efficiency and financial incentives and opportunities. This effort linked with the major land use developments currently undergoing master plan reviews—Coyote Valley, Vision North San Jose and the Evergreen area. The information presented at the Summit will help to form the basis for the design guidelines for those land use plans</p>	<p>– Continue to coordinate with the Planning, Building and Code Enforcement Department on the development of design guidelines which incorporate green building and energy efficient design.</p>
<p>IV.D Reduce the urban heat island effect through the adoption of Cool Communities' actions</p>	<p>No activities</p>	<p>No activities</p>

Goal V. Encourage the development and use of renewable energy sources and alternative fuels

The City has been recognized as one of the leaders in working with our community to encourage the use of renewables, particularly through the City's building permit process for the installation of solar photovoltaics. The City has also taken initial steps in the use of renewable energy sources for city facilities. The challenges will be to identify funding mechanisms for future installations.

Policies	2005 Actions/Accomplishments	2006 Proposed Actions
V.A. Expand the use of renewable energy technologies or sources within city facilities and within city activities	<ul style="list-style-type: none"> - Goal was established to implement five renewable energy systems on city facilities by 2008. Two systems currently exist (Alum Rock Youth Center, and jet bridges at airport.) Due to limited resources, PV opportunities were not identified as part of new city facility construction 	<ul style="list-style-type: none"> - Explore innovative funding mechanisms used by others, such as state of California, for installation of solar PV for their applicability to San Jose. Limited staff resources exist to implement this effort
V.B. Encourage the development of renewable energy sources and alternative fuels and cooperate with other public and quasi-public agencies in furthering this policy (Adopted San Jose General Plan—Natural Resources)	<ul style="list-style-type: none"> - A recent Sierra Club study on San Jose's building permit process for private sector installation of photovoltaics (PV) reported that San José has one of the best records for both ease of process and low fees. Education on PVs, and other solar installation issues was provided to the PBCE staff responsible for permitting. 	<ul style="list-style-type: none"> - Continue to coordinate as opportunities arise and resources are available. In particular, educational workshops on renewable energy, including photovoltaics will be instituted.
		<ul style="list-style-type: none"> - <i>Solar Power 2006</i>, sponsored by the Solar Energy Power Association and the Solar Energy Industries Association, will be held in San Jose from October 16-19, 2006. ESD staff has been asked to participate in the planning for this conference, usually attended by more than 1500 professionals in the solar field.
V.C. Pursue the purchase of electricity from renewable energy sources (Council adopted—11/00)	<ul style="list-style-type: none"> - No activities 	<ul style="list-style-type: none"> - No resources have been identified to implement this policy

UNITED NATIONS URBAN ENVIRONMENTAL ACCORDS

The goals, policies and actions of the City's Sustainable Energy Policy meet the following actions of the United Nations Urban Environment Accords, which was signed onto by the City of San Jose in November of 2005.

ENERGY

- **Action 1:** Adopt and implement a policy to increase the use of renewable energy to meet ten per cent of the city's peak electric load within seven years.
- **Action 2:** Adopt and implement a policy to reduce the city's peak electric load by ten per cent within seven years through energy efficiency, shifting the timing of energy demands, and conservation measures
- **Action 3:** Adopt a citywide greenhouse gas reduction plan that reduces the jurisdiction's emissions by twenty-five per cent by 2030, and which includes a system for accounting and auditing greenhouse gas emissions.