

ATTACHMENT 1

CITY OF SAN JOSE STRATEGIC ENERGY ACTION PLAN ADOPTED BY COUNCIL JUNE 2010

Leading by Example

Two Year Action Plan

- Reduce municipal energy use by 10%
 - Complete 50 energy audits and related energy efficiency projects on priority facilities to ensure General Fund Savings
 - Ensure a robust and effective data tracking and management system to evaluate the effectiveness of city energy activities, and ensure effective reporting and accountability
 - Continue and expand City's energy efficiency fund to ensure that first and second year savings and rebates, achieved as a result of energy efficiency and renewable project, are returned and employed for future City energy projects
 - Install Light Emitting Diodes, and other innovative lighting technologies, that will allow streetlights and other outdoor lighting to be programmed remotely, dimmed and ensure utility billing for actual consumption
 - Assist non-general funded departments in achieving their energy efficiency and renewable energy goals
- Install 50MW of solar on city facilities and lands
 - Develop effective and innovative city guidance documents, processes and procurement procedures in order to expedite and finance the installation of solar and energy efficiency measures
 - Implement two or more agreements for the installation of solar and renewable energy technologies on municipal facilities
 - Work to implement the Strategy (Attachment 2) for the installation of 50 MW of renewables on municipal facilities/lands and present to Council in 2010
- Work to ensure that the City's General Plan, legislation, permitting and other building focused rules offer integrated and streamlined systems for the implementation of energy efficiency and renewable energy technologies
- Promote land use patterns that increase energy efficiency in building and transportation systems by making energy efficiency and the use of renewables a critical element when developing General Plan policies, new zoning regulations, and other related land use policies and strategies.
 - Work with the Planning Department and the Envision 2040 Task Force to ensure effective energy efficiency and renewable energy policies related to land use and building opportunities.

- Work with the Planning Department on the update of City Council Policy 403 on Outdoor Lighting on Private Developments.
- Implement energy conversion technologies as identified in the Zero Waste Strategic Plan
 - Incorporate an energy conversion option into the Commercial Solid Waste Request for Proposal process
 - Partner with private companies to develop demonstration scale or larger projects utilizing energy conversion technology in San Jose
 - Research and analyze energy conversion implementation options for their feasibility in San Jose
 - Further the development of a dry-fermentation anaerobic digestion facility on San Jose/ Santa Clara Water Pollution Control lands
 - Aggressively pursue any Federal or State grant funding which could offset the capital costs of energy conversion facilities in the City

Long Term Plan

- Review and update the Strategic Energy Action Plan every two years.
- Continue to track existing and emerging energy efficiency, solar and other renewable technologies for adoption by the City
 - Work with local firms to identify opportunities for city technology partnerships and installations
- Identify research and demonstration opportunities that can be applied at Organics to Energy facilities that are developed in San Jose
- Analyze the feasibility of developing wood waste and biosolids gasification technology use in San Jose
- Establish Renewable Energy Zones within San Jose, similar to Enterprise Zones for increased economic development opportunities for renewable energy technologies development and business creation.
- Develop means for retrofitting streetlights with solar energy
- Identify opportunities for municipal utility and/or community aggregation opportunities for generating green/renewable energy for both the City and community use.
- Ensure implementation of design guidelines that encourage solar orientation, readiness, and installation
- Encourage use of solar covers on all parking areas

Advocating Policies at the Regional, State and Federal Level

Two Year Action Plan

- Support and ensure local, state and federal legislation and regulation to enable cities and

companies to increase energy efficiency and the use of renewables

- Identify and remove barriers to creating energy improvement areas, renewable generation, smart grids, microgrids, and other energy efficient and renewable technology uses
- Work with local governments and the California Public Utilities Commission to ensure effective implementation of the AB2466 legislation to allow cities to take advantage of financial credit mechanisms related to the installation of renewables on municipal facilities.
- File testimony in PG&E's rate case before the CPUC to reach a settlement with the utility and the CPUC regarding the methodology, process, and timeline that would enable the City to employ an advanced control and monitoring system to meter the City's streetlights.
- Work to ensure that the City's General Plan, legislation, permitting and other building focused rules offer integrated and streamlined systems for the implementation of energy efficiency and renewable energy technologies
- Promote land use patterns that increase energy efficiency in buildings and transportation systems by making energy efficiency and the use of renewables a critical element when developing General Plan policies, new zoning regulations, and other related land use policies and strategies
 - Work with the Planning Department and the Envision 2040 Task Force to ensure effective energy efficiency and renewable energy policies related to land use and building opportunities

Long Term Plan

- Monitor local, state and federal legislation related to energy efficiency and renewables on their potential impact and benefits to San Jose and its community.
- Advance and implement State Title 24 "beyond code" energy efficiency building standards and Title 20 Energy Efficient Appliance standards
- Ensure environmental safety in the manufacturing and disposal of existing and emerging energy efficiency and renewable energy technologies

Financing Mechanisms

Two Year Action Plan

- Ensure cost-effective financing mechanisms are in place for municipal energy efficiency and renewable energy installations
 - Continue and expand City's energy efficiency fund to ensure that first and second year savings, achieved as a result of energy efficiency and renewable project, are returned and deployed for future City energy projects
 - Actively solicit grant and bond funding for energy efficiency and renewable energy municipal projects to leverage city dollars and efforts

- Identify and implement community financing mechanisms for energy efficiency and renewable energy installations
 - Work with PG&E and other partners to use available local, state and federal funds to reduce San Jose's per capita energy use.
 - Implement the Silicon Valley Energy Watch Program with PG&E to provide education, rebates, and energy efficiency installations for the low/moderate income community, small business and non-profit sectors of the community (Target 250 household/4,300kW over the three year term of the PG&E contract).
 - Launch the CaliforniaFirst financing program for the San Jose community
 - Launch the establishment of group solar purchase opportunities for both city employees and the community through Solar Block Parties and/or other educational outreach opportunities
 - Analyze opportunities for the use of Clean Renewable Energy Bonds (CREBs) and Qualified Energy Conservation Bonds (QECBs) as financing mechanisms within the San Jose area for municipal and community installations

Long Term Plan

- Evaluate the effectiveness of various community financing mechanisms for energy efficiency and renewable energy installations for their continued program implementation.
- Advocate for incentives in lieu of tax credits to support the cost of municipal solar installations
- Continue to pursue grant and bond opportunities
- Pursue opportunities to set up a municipal utility and/or community aggregation project
- Evaluate opportunities for a bond or tax measure to finance energy efficiency and renewable energy installations.

Forming Strategic Partnerships

Two Year Action Plan

- Work in partnership with local, state and national organizations to achieve the energy efficiency and renewable energy goals of the Green Vision.
 - Work with regional organizations such as Sustainable Silicon Valley, Bay Area Air Quality Management District, and others to identify areas of cooperation and implementation activities
 - Work with PG&E, the California Energy Commission, the California Public Utilities Commission, and business/technology institutions to advance the use of Smart Grids and Smart Meters within San Jose
 - Collaborate with private businesses through the City's Demonstration Partnership Policy in order to develop energy efficiency and renewable energy installations and infrastructure.

- Ensure resources for the implementation of the Environmental Innovation Center

Long Term Plan

- Establish partnerships with area businesses and the commercial sector for establishing the EPA Energy Star Buildings Program.

Communications and Engagement

Two Year Action Plan

- Identify and engage with local, state and national partners to implement community educational programs to expand the knowledge and awareness of energy efficiency and renewable energy technologies and opportunities
 - Implement the PG&E Innovator Pilot program to provide grants for community based organizations that will provide increased educational opportunities on available energy efficiency and renewable energy opportunities
 - Establish a Silicon Valley Energy Map as a behavior modification tool for increasing energy efficiency, green building, and renewable energy installations.
 - Implement the Department of Energy Solar America City program to continue city-wide educational and outreach activities and identify opportunities to showcase and/or demonstrate energy efficiency and renewable energy technologies
 - Work with area partners to provide educational outreach to schools and universities
- Develop a Local Energy Assurance Plan for all critical city facilities and revise the City's Emergency Operations Plan to more comprehensively address energy planning and preparedness, using Department of Energy Grant funds.
- Work with area educational programs and institutions to create jobs and drive markets, ensuring comprehensive and integrated job training programs that build careers in the energy efficiency and renewable energy sectors.
 - Implement the Department of Energy Solar America City program to establish renewable energy training programs for at-risk youth
 - Work with Work2Future, area educational institutions, and other workforce development organizations to integrate energy efficiency and renewable energy workforce development opportunities
- Coordinate with the Plant Master Plan Communications Team in order to educate local stakeholders about energy conversion projects that could be developed on plant lands.

Long Term Plan

- Evaluate the effectiveness of community educational and outreach programs for their continued program implementation.