



85056

DATE: March 9, 2017

TO: Finance and Government Operations Committee

FROM: Sylvia Gallegos, Deputy County Executive

SUBJECT: Semi-Annual Sustainability and Climate Action Report (October 2016 - February 2017)

RECOMMENDED ACTION

Receive semi-annual report from the Office of Sustainability relating to sustainability and climate action programs for period October 2016 through February 2017.

FISCAL IMPLICATIONS

There are no fiscal implications in receiving this report.

REASONS FOR RECOMMENDATION

The Semi-Annual Report updates the Finance and Government Operations Committee (FGOC) and the Board of Supervisors (Board) on internal and community programs, policies, and projects that advance the County's sustainability and climate action objectives and goals. The report also describes the integration of sustainability principles and measures across the County organization, departments, and offices.

PART I - SUSTAINABILITY/CLIMATE ACTION – INTERNAL

In collaboration with other County offices and departments, the Facilities and Fleet Department (FAF) is the lead on the Board's organization-wide sustainability goals, policies, and objectives, and reports the following regarding progress, implementation, and status of internal government operations projects:

Renewable Energy, Energy Efficiency and Storage

The following renewable energy and energy conservation efforts are underway, or were recently completed, at County facilities:

Renewables for Revenue Project (Item No. 9b October 6, 2015)

For information on the Project, see the Renewables for Revenue (R4R) Quarterly Report legislative file, submitted to the February 9, 2017 Finance and Government Operation Committee and the February 16, 2017 Housing, Land Use, Environment and Transportation Committee.

Energy and Water Projects

FAF continues to operate, monitor and maintain the County's portfolio of solar, fuel cell, battery storage, and energy efficiency systems. Projects currently underway include:

Energy Service Company Projects

The two Energy Services Companies (ESCOs) FAF is working with, Ameresco and Siemens, presented first drafts of their Investment Grade Energy and Water Audits (IGAs) of County facilities to staff in February 2017. FAF is currently working with the ESCOs to validate the energy / water and cost savings estimates from the first draft IGA reports. FAF is negotiating implementation contracts with the ESCOs. Opterra, the ESCO responsible for VMC, is in the process of conducting its IGA audit. FAF anticipates having energy performance contracts for Board consideration in Q3 2017.

Utility Data Management System (UDMS)

A Utilities Data Management System (UDMS) is a software solution that facilitates the efficient tracking, management and analysis of the cost and usage of utilities. FAF issued a UDMS Request for Proposal (RFP) in May of 2016 and received responses from three vendors: Siemens, Sunpower/Enernoc, and Facility Dude. After reviewing proposals and receiving vendor presentations, in November 2016 the RFP Evaluation Panel selected Siemens due to its intuitive web interface, competitive pricing, and dynamic utilities bill pay and management features. FAF is currently working to negotiate a UDMS implementation contract with Siemens, which is tentatively expected to be finalized in late Q2 2017.

Facilities Benchmarking Efforts

FAF continues to work with Silicon Valley Energy Watch to benchmark major County Facilities using Energy Star Portfolio Manager. Priority on this effort has been given to all facilities within the Civic Center, including correctional facilities. After evaluation of utility meters for all facilities within the Civic Center, it was determined that the facilities need to be benchmarked as a campus. This was due to multiple facilities sharing a utility meter. The purpose of benchmarking the Civic Center is to effectively evaluate the existing resource consumption of the campus, demonstrate a need for sub-metering, and identify additional sustainability priorities for the Civic Center Master Plan.

Electric Vehicle Charging Stations

FAF has allocated \$2 million to design and construct approximately 60 dual port electric vehicle charging stations. In December of 2016, 9-new stations were installed at Fleet Management and 6-existing stations were replaced at the Civic Center Employee parking lot. Other sites that are being evaluated for implementation include the Charcot Campus, 55 W. Younger, the Berger Campus, 333 West Julian (SSA), and the Civic Center parking garage. Deployment at these sites is anticipated in Q2 2017.

Municipal Operations Greenhouse Gas Inventory

In 2007, the Board signed the Cool Counties Climate Stabilization Declaration and established a set of aggressive goals for greenhouse gas (GHG) emission reductions for the County. In 2005 and 2010, a GHG emission inventory was completed to identify the baseline and current state of the County's emissions for operations and facilities. The Cool Counties Climate Stabilization Declaration states the need to stop increasing the amount of emissions by 2010, decrease emissions by 1% every 5 years from 2010 – 2050, and reach an 80% reduction by 2050. Given that no GHG inventory has been completed in six years, the FAF is unable to identify whether or not it is headed towards the 1% reduction every 5 years, as well as the 2050 goal of 80% emissions reduction.

FAF released an informal competitive procurement (ICP) for the completion of a municipal operations greenhouse inventory on January 13, 2017, with a proposal due date of February 2, 2017. Evaluation of proposals are currently underway, but it is anticipated that the municipal operations GHG inventory will be completed by August 2017. Completing a GHG inventory will identify what projects have contributed towards GHG emission reductions, as well as allow FAF to strategize/prioritize for future projects that can meet the County's sustainability and climate change mitigation goals.

Ridesharing Pilot

Under advisement from May 12, 2016 (Item No. 6): Consider recommendations relating to ride share vendors and sharing vehicles with other agencies. (Referral from March 2, 2016, Finance and Government Operations Committee meeting, Item No. 7) (ID# 81485), the Board of Supervisors directed FAF to conduct a competitive solicitation to select a vendor for a ridesharing platform, in an amount not exceed \$10,000 for a period of six months (BOS June 7, 2016 Item No. 25). An informal competitive procurement was conducted and service agreement was signed on September 16, 2016 with Scoop Technologies.

The program rolled out on October 2016 to all County employees, with focused on-site marketing efforts at the Civic Center campus, Valley Medical Center, and 333 West Julian (SSA). Initial marketing execution took place during the month of October via these site visits, a post on SCC Connect, posts on department's intranet sites, and a total of two Green Meme's email blasts. A second round of site visits took place at the Civic Center and Valley Medical Center during the month of January. Lastly, representatives from Valley Transportation Authority (VTA) and Metropolitan Transportation Commission were at the Civic Center campus on December 12, 2016 to promote the Scoop ridesharing platform. This

is part of VTA and MTC’s partnership to promote ridesharing platforms throughout the region.

The monthly detailed reporting meetings between FAF and Scoop Technologies demonstrated an increase in usage from the original roll out month of October 2016. In October there were a total of 157 County employees registered; there are currently, as of January 2017, a total of 243 registered users. There is a total of \$9,466 remaining in funds allocated for this effort. FAF’s marketing efforts will continue over the next couple of months, with an additional round of site visits and Green Meme blasts.

Below is a summary chart of Scoops overall impact on the County of Santa Clara.

Category	December	January	All Time
Employees registered	34	34	243
Matched trips	61	150	273
Cars out of parking lots	23	69	132
Miles saved	441	984	2572
Pounds of CO2 saved	396	885	2315

Figure 1: Scoop Impacts to Date, Source: Scoop Technologies

Zero Waste Program for County Facilities

The Republic Services diversion rate for the County facilities Zero Waste Program (ZWP) is reported to be 75% in December of 2016. In addition, the semi-annual Zero Waste Report, was submitted to FGOC on February 9, 2017 (Item 7, Legislative file No. 84816). The report included updates related to the County’s facilities ZWP such as the diversion rate, outreach, internal composting and program expansion.

Civic Center Master Plan

As part of the Civic Center Master Plan process, an eco-charrette was hosted by FAF, Lowe Enterprises, and Gensler Architects on October 19, 2016. Multiple County department representatives were in attendance, as well as other local organizations, such as SF Planning and Urban Research (SPUR), TransForm, Valley Water, Sustainable Silicon Valley, and the Air District. An eco-charrette is part of the integrated design process, where stakeholders are able to identify their sustainability priorities and vision for future development. Furthermore, it offers the unique advantage of giving immediate feedback to the designers. Strategies revolving around energy and water conservation, transportation, and public realm improvements (amongst others) were discussed and prioritized during this first eco charrette.

As a continuation of this prioritization process, a follow-up Eco-Charrette was hosted on January 25, 2017. This second Eco-Charrette focused on potential sustainability strategies noted as priorities during the first charrette. As a result, attendees were in breakout sessions that focused on Resources (Energy, Water + Waste) and Transportation strategies. A detailed summary report on recommended measures that resulted from this eco-charrette are still being evaluated by the Administration and the consultant.

PART II – SUSTAINABILITY/CLIMATE ACTION – EXTERNAL

In collaboration with community partners including municipalities, non-profit organizations, the private sector and other partners, the Office of Sustainability (OOS) serves the Board's sustainability goals, policies, and objectives, and reports the following regarding progress, implementation, and status of multi-jurisdictional and community programs and projects:

Silicon Valley 2.0 (SV 2.0)

OOS completed the administrative closeout of the Silicon Valley 2.0 project in late 2016. The online Implementation Tool developed through the project continues to receive significant interest, and staff anticipates engaging a consultant in the coming months to improve access to the tool, allowing for further use by other agencies. In addition, staff has begun the process of re-connecting with members of the project Technical Advisory Committee (TAC) in an effort to first assess progress made to date on the recommended strategies from the project, and second, to prioritize additional strategies for implementation.

Silicon Valley Clean Energy Authority (SVCEA)

The Silicon Valley Clean Energy Authority is close to commencing roll out of services to customers, with the first customers taking delivery of electricity on April 1.

In support of the SVCEA, the Office of Sustainability has performed a number of actions, including:

- Hosting SVCEA Board Meetings at County Center through January 2017. As of February 2017, meetings have transitioned to Cupertino Community Hall.
- Presenting financial agreements, including a loan guarantee (BOS September 27, 2016, Item No. 24) and subordination agreement (BOS December 6, 2016, Item No. 51) needed to facilitate SVCE's acquisition of credit through River City Bank.
- Participating in the Communications Working Group, to refine messaging and identify outreach channels for introducing SVCE to residents and businesses throughout the unincorporated County.

Since the last update report in October, the SVCEA has:

- Secured banking and credit services with River City Bank, including a \$2 million line of credit for pre-launch operations and a \$20 million line of credit for power purchases.
- Signed contracts for power supply services with Energy America, LLC, Exelon Generation Company, LLC and Shell Energy North America, LLP, along with scheduling and coordination services from Z-Global.
- Hired additional personnel, including a Director of Finance, Manager of Account Services, and Marketing & Outreach staff. Additional recruitments are currently underway.
- Secured permanent office space in Sunnyvale.
- Approved residential, commercial, and industrial rates at the January 2017 Board meeting.
- Begun distributing notifications to customers for the first launch phase on April 1.

More information, and updates, can be found on the SVCE website: www.svcleanenergy.org.

California Public Utilities Commission (CPUC)

In an effort to support both the SVCEA and FAF, OOS continues to actively monitor CPUC proceedings relating to:

- Continuation, form and scale of future Power Customer Indifference Adjustment (PCIA) charges;
- The authority and duties of CCEs as Program Administrators under the CPUC's Energy Efficiency Portfolio (and funding); and
- The PGE General Rate Case, Phase II, in which the County has been accepted as a party in order to file testimony and comments regarding proposed changes to non-residential rates and time-of-use periods that could cause significant reductions in the projected financial savings from the Revenue for Renewables solar projects.

Bay Regional Energy Network (BayREN)

Under OOS, the County continues to be an implementer among the nine San Francisco Bay Area counties in the Single Family Energy Efficiency Residential Program, and the top performer among the nine counties in the Multi-Family Energy Efficiency Program. Further, the Sustainability Office manages a high-performing community outreach program that is modeled in other counties, and serves as the Statewide Energy Efficiency Marketing, Education and Outreach representative for the entire BayREN.

Since the inception of the BayREN Program, the County has facilitated the completion of nearly 800 single family home upgrades, with another 140 in the pipeline, and has paid over \$1.1 million in incentives to Santa Clara County homeowners. In addition, BayREN has installed energy efficiency improvements in nearly 4,900 multi-family units, with another 3,000 projected through 2017. The multi-family program has delivered nearly \$3.6 million in rebates to building owners in Santa Clara County.

In addition, the Office of Sustainability continues to serve as the Single Family Residential Program Lead for all nine BayREN Counties, as well as the BayREN Representative in the CPUC's Statewide Energy Efficiency Marketing, Education and Outreach Program. The County's participation in the BayREN, including staff, is grant-funded.

Driving to Net Zero: Decarbonizing Transportation in Silicon Valley

The Office of Sustainability secured this Project through a \$536,729 grant from the California Strategic Growth Council. The County is partnering with the Cities of Cupertino, Morgan Hill, Mountain View, Palo Alto, San Jose, and Sunnyvale, and has engaged ICF International as the consultant on the project. The Project has gathered data from the participating jurisdictions, both in terms of EV infrastructure policies, regulations, and deployments, and in terms of municipal clean fleet planning. OOS has hosted a first round of workshops for both infrastructure and fleet planning, and anticipates additional workshops throughout the first half of 2017. Subsequent tasks will include developing frameworks for encouraging greater market penetration of AFVs, and exploring a variety of funding and financing strategies.

Sustainability Master/Implementation Plan

On August 25, 2015 (Item 12), the Board issued a Referral to the Sustainability Office to report back to the Board on the budgetary resources necessary to create an Integrated Sustainability Master Plan, including a draft framework for the Master Plan; approved with further direction by the Board (BOS September 29, 2015 Item No. 28). The Board clarified its position that the Plan should form a comprehensive, cohesive, forward-facing government and community portfolio for cross-implementation of economic, environmental, and environmental sustainability strategies and measures, which are trackable, measurable and reportable; and specifically incorporate existing County policies and programs, such as, the Environmental Stewardship Goals (created in 2009).

In January 2017, staff began a thorough review of the potential scope for a Sustainability Master Plan for the County. The review encompassed sustainability planning structures, both in terms of substance and process, and considered scales ranging from single building certification up through international frameworks. The goal of this review was to evaluate sustainability protocols, document those with a direct relationship to the County, and note categories suitable for inclusion in the County's Sustainability Master Plan. From this

framework review, twenty (20) Issues of Concern have been identified for further review. Staff has begun the outreach and recruitment process for a County Sustainability Working Group that will evaluate existing County projects, programs, and policies and to envision a broader county-wide approach to integrated sustainability action. Staff intends to return to this committee at a subsequent meeting to provide a more focused update, including proposed timeline and milestones for the Plan's development.

EFLIC Energy Efficiency Financing Pilot for Low and Moderate Income Customers

Under the CPUC Statewide Energy Efficiency Financing Program, the Energy Financing Line Item Charge (EFLIC) Project was developed with PG&E. The program would offer low and moderate income households the opportunity to finance energy efficiency upgrades through a special loan product that is repaid through a line item charge on customer energy bills. Previously scheduled for an early 2015 launch, the EFLIC Program has been delayed by processes at the state level, and is on indefinite hold at the present time. The Sustainability Office continues to coordinate with PG&E on the program timeline and progress.

Residential PACE (Property Assessed Clean Energy)

Staff continues to monitor developments surrounding Residential PACE, and presented to FGOC (May 12, 2016, Item No. 11):

- An update on the release of the FHA Guidelines, which remained pending at that time;
- An update on continued discussions with PACE administrators, regarding the County's proposed supplemental Contractor Standards (including a Green Wage);
- A summary of the County of Los Angeles self-administered PACE Program;
- An overview of Ygrene, a newer PACE provider operating under the Golden State Finance Authority;
- An overview of the Fannie Mae HomeStyle Energy mortgage, which can explicitly take out a PACE assessment at time of property transfer;
- And an overview of the Association of Bay Area Governments (ABAG) Regional Collaborative Services Agreement (RSCA) which applies additional consumer protection standards across participating PACE providers.

On July 19, 2016, the FHA released guidance on Residential PACE. An off-agenda memorandum to the Board was issued on September 12, 2016, summarizing the requirements for utilizing PACE on properties with FHA mortgages, as well as the remaining risks of adopting Residential PACE in the unincorporated county.

Staff continues to work with numerous PACE administrators to determine whether any are willing to adopt the County's proposed contractors standards, but, to date, none of them have

been willing to commit. Staff hopes to make progress with the PACE providers and will report back to the Board if or when any agree to the County's provisions.

CHILD IMPACT

Sustainability, energy and climate action programs, projects, and activities are undertaken by the County to serve the economic, environmental and social interests of the community, including those impacting children and youth.

SENIOR IMPACT

Sustainability, energy, and climate action programs, projects, and activities are undertaken by the County to serve the economic, environmental and social interests of the community, including those impacting seniors.

SUSTAINABILITY IMPLICATIONS

The recommended actions review, approve and support programs, projects, and activities that balance public policy and program interests, and which advance the Board of Supervisors' sustainability objectives to foster a healthy environment, protect resources and public health and safety, promote a diverse economy, and advance social equity and safety.

BACKGROUND

The Sustainability Office was established by the Board on August 24, 2010 and commenced operations on November 8, 2010. Among its directives, the Sustainability Office was tasked with promoting sustainability approaches, policies and programs throughout the County's departments and offices, as well as enhancing the County's regional, state and national leadership in climate mitigation, adaptation, and all other sustainability resource, equity, and economic sectors.

The Semi-annual and Annual Sustainability and Climate Action Reports are a means of recording and reporting progress back to FGOC and the Board, and to serve as a public reference source.



88436

DATE: October 12, 2017

TO: Finance and Government Operations Committee

FROM: Sylvia Gallegos, Deputy County Executive

SUBJECT: Semi-Annual Sustainability and Climate Action Report (February - September 2017)

RECOMMENDED ACTION

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FISCAL IMPLICATIONS

There are no fiscal implications in receiving this report.

REASONS FOR RECOMMENDATION

The Semi-Annual Report updates the Finance and Government Operations Committee (FGOC) and the Board of Supervisors (Board) on internal and community programs, policies, and projects that advance the County's sustainability and climate action objectives and goals. The report also describes the integration of sustainability principles and measures across the County organization, departments, and offices.

PART I - SUSTAINABILITY/CLIMATE ACTION – INTERNAL

Renewable Energy, Energy Efficiency and Storage

The following renewable energy and energy conservation efforts are underway, or were recently completed, at County facilities:

Renewables for Revenue Project (Item No. 9b October 6, 2015)

For information on the Project, see the Renewables for Revenue (R4R) Quarterly Report legislative file, submitted to the August 10, 2017 Finance and Government Operations

Committee and the August 17, 2017 Housing, Land Use, Environment and Transportation Committee.

Energy and Water Projects

FAF continues to operate, monitor and maintain the County's portfolio of solar, fuel cell, battery storage, and energy efficiency systems. Projects currently underway include:

Energy Service Company Projects

Design

Of the three Energy Services Companies (ESCOs) underway, Ameresco has completed its Investment Grade Audit (IGA). Ameresco's IGA report identifies approximately \$13 million in water, energy efficiency, and battery storage measures that have a combined payback of under 10 years (see Appendix A). FAF and VMC are working with two other ESCOs, Siemens and Opterra, to finalize their respective IGA reports, which are currently in final draft form.

Funding

FAF has received \$5 million to fund the ESCO Project; however, between the three ESCOs, approximately \$30 million in energy and water measures have been identified, pending IGA finalization by two of the ESCOs. FAF met with the Office of Budget and Analysis and the Finance Agency to determine the possibilities for addressing the budget shortfall. It was determined that, to the extent the remaining ESCO projects are to be funded, the General Fund, rather than third-party financing, should be used to avoid interest payments and maximize the projects' return on investment. Phasing the ESCO projects over several years would be beneficial to the County to avoid large capital costs in any given year. FAF is currently working with each of the ESCOs to compile "Phase 1" bundles of projects that would contain the measures with the best financial returns, to submit to the Administrative Capital Committee for additional funding consideration in FY19.

Contract Negotiation

FAF continues to work with County Counsel to negotiate project implementation contracts with the three ESCOs. Since the ESCO contracts are informed by project funding, implementation approach, and scope, FAF anticipates bringing implementation contracts to the Board for consideration in Q2 2018.

Utility Data Management System (UDMS)

A Utilities Data Management System (UDMS) is a software solution that facilitates the efficient tracking, management, and analysis of utility cost and usage. FAF issued a UDMS

Request for Proposal (RFP) in May of 2016 and received responses from three vendors: Siemens, Sunpower/Enernoc, and Facility Dude. After reviewing proposals and receiving vendor presentations, in November 2016, the RFP Evaluation Panel selected Siemens due to its intuitive web interface, competitive pricing, and dynamic utilities bill pay and management features. FAF is currently working to negotiate a UDMS implementation contract with Siemens which is tentatively expected to be finalized in Q3 2018.

Facilities Benchmarking Efforts

FAF continues to work with Silicon Valley Energy Watch (SVEW) to benchmark major County Facilities using Energy Star Portfolio Manager. Priority on this effort has been given to all facilities within the Civic Center, including correctional facilities. After evaluation of utility meters for all facilities within the Civic Center, it was determined that the facilities need to be benchmarked as a campus, due to multiple facilities sharing a master utility meter. The purpose of benchmarking the Civic Center is to effectively evaluate the existing resource consumption of the campus, demonstrate a need for sub-metering, and identify additional sustainability priorities for the Civic Center Master Plan. Due to account metering challenges, FAF has engaged PG&E on this effort.

Electric Vehicle Charging Stations

FAF has allocated \$2 million to design and construct approximately 60 dual port electric vehicle charging stations. In December of 2016, 9-new stations were installed at Fleet Management and 6-existing stations were replaced at the Civic Center Employee parking lot. Other sites that are being evaluated for implementation include the Charcot Campus, 55 W. Younger, the Berger Campus, 333 West Julian (SSA), and the Civic Center parking garage. Deployment at these sites is anticipated to start in Q2 2017.

Charcot Recycled Water Project

FAF staff is currently working with the San Jose Water Company on a recycled water project to tie in the Charcot Campus irrigation system to the recycled water pipeline for landscape water usage. Using recycled water for irrigation will save approximately 3.5 million gallons of potable water annually, not only preserving the drinking water supply, but also providing an estimated \$2,200 in annual savings as recycled water is about 10% less expensive than potable water.

Municipal Operations Greenhouse Gas Inventory

In 2007, the Board signed the Cool Counties Climate Stabilization Declaration and established a set of aggressive goals for greenhouse gas (GHG) emission reductions for the County. In 2005 and 2010, a GHG emission inventory was completed to identify the baseline and current state of the County's emissions for operations and facilities. The Cool Counties

Climate Stabilization Declaration states the need to stop increasing the amount of emissions by 2010, decrease emissions by 1% every 5 years from 2010 – 2050, and reach an 80% reduction by 2050. In order to identify whether or not the County is headed towards the 1% reduction every 5 years, as well as the 2050 goal of 80% emissions reduction, FAF is working on a follow-up study of GHG emission reductions.

FAF released an informal competitive procurement (ICP) for the completion of a municipal operations greenhouse inventory on January 13, 2017, with a proposal due date of February 2, 2017. A service agreement between the County of Santa Clara and DNV GL Energy Services was signed on March 28, 2017. Currently, FAF staff and DNV GL are compiling all the data necessary to complete a GHG inventory for each sector of the County's operations. This includes data on fleet usage, employee commute, building energy use, solid waste disposal, reimbursed employee miles, closed landfills, water/sewage transport, and septic systems. Completing a GHG inventory will identify what projects have contributed towards GHG emission reductions, allow FAF to strategize/prioritize for future projects, and provide the information necessary to update the 2009 *Climate Action Plan for Operations and Facilities*. It is anticipated that the GHG inventory and report will be completed by November 2018.

Ridesharing Pilot

Under advisement from May 12, 2016 (Item No. 6): Consider recommendations relating to ride share vendors and sharing vehicles with other agencies. (Referral from March 2, 2016, Finance and Government Operations Committee meeting, Item No. 7) (ID# 81485), the Board of Supervisors directed FAF to conduct a competitive solicitation to select a vendor for a ridesharing platform, in an amount not exceed \$10,000 for a period of six months (BOS June 7, 2016 Item No. 25). An informal competitive procurement was conducted and service agreement was signed on September 16, 2016 with Scoop Technologies.

The program rolled out on October 2016 to all County employees, with focused on-site marketing efforts at the Civic Center campus, Valley Medical Center, and 333 West Julian (SSA). Initial marketing execution took place during the month of October via these site visits, a post on SCC Connect, posts on department's intranet sites, and a total of two Green Meme's email blasts. A second round of site visits took place at the Civic Center and Valley Medical Center during the month of January. Lastly, representatives from Valley Transportation Authority (VTA) and Metropolitan Transportation Commission were at the Civic Center campus on December 12, 2016 to promote the Scoop ridesharing platform. This is part of VTA's and MTC's partnership to promote ridesharing platforms throughout the region.

The monthly detailed reporting meetings between FAF and Scoop Technologies have demonstrated an increase in usage from the original roll out month of October 2016. In October there were a total of 157 County employees registered As of September 26, 2017, there were a total of 309 registered users. There was a total of \$6,600 remaining in funds allocated for this effort.

Below is a summary chart of Scoops overall impact on the County of Santa Clara.

Category	Impact to Date
County of Santa Clara Employees Registered	309
One Way Trips	1,682
Rider Miles Saved	11,109
Pounds of CO2 saved	11,691
Equivalent to:	137 Tree seedlings grown for ten years
Funds Used (out of \$10,000 budget)	\$2,922

Figure 1: Scoop Impacts to Date, Source: Scoop Technologies

The service agreement between the County of Santa Clara and Scoop Technologies was set to expire on September 30th, 2017. However, at the August 29th Board of Supervisors meeting, the Board approved the extension of the pilot program for one year, with a continued \$1.00 rate for riders, and an additional \$3.00 per trip reimbursement for drivers to encourage greater participation. These actions should allow for a better determination as to whether or not the pilot program is effective, and if the program itself should be continued on a permanent basis. Given that funds remain in the existing contract, this amendment had no cost implications.

Zero Waste Program for County Facilities

The County’s 2016 average overall waste stream diversion rate was approximately 76 percent. The five primary waste stream categories include waste handled by contracted hauler Republic Services, waste handled by other commercial haulers in North and South County, waste self-hauled by departments to materials recovery facilities and landfills, waste handled by secure shredding services, and waste diverted by commodity-specific vendors. Additional ongoing zero waste efforts include internal composting of some of the yard waste and food scraps at Elmwood Correctional Complex. Administration provided outreach about the Zero Waste Program to over 700 County employees at New Employee Orientations, staff meetings and trainings, and Health and Wellness Fairs in 2016.

PART II – SUSTAINABILITY/CLIMATE ACTION – EXTERNAL

In collaboration with community partners including municipalities, non-profit organizations, the private sector and other partners, the Office of Sustainability (OOS) serves the Board's sustainability goals, policies, and objectives, and reports the following regarding progress, implementation, and status of multi-jurisdictional and community programs and projects:

Climate Adaptation (Silicon Valley 2.0)

Staff continues to explore options for improving access to the online Implementation Tool developed through the Silicon Valley 2.0 project. Conversations with ISD concluded that the tool cannot be hosted internally on County servers, given a difference in underlying software architecture, and will require external hosting and support. Staff is working to identify funding to improve and continue hosting the tool. On broader climate adaptation policy, staff continues to engage with other stakeholders both countywide and regionally around the Bay Area. At the county level, staff participates in a quarterly sea level rise working group convened by Joint Venture Silicon Valley and the Santa Clara Valley Water District. Regionally, staff will begin participating this month in a new regional working group convened by the Bay Conservation and Development Commission (BCDC) around the ongoing project known as "A Rising Tide."

Silicon Valley Clean Energy (SVCE)

Silicon Valley Clean Energy has commenced rolling out its services to customers, with the final phase of customers taking delivery of electricity on July 1. Enrollees received opt-out notices 30 and 60 days after their enrollment date, so participation rates are expected to remain fairly stable going forward. As of September 1st, 2017, the overall opt-out rate (from approximately 247,000 accounts) was 2.27%, well below forecasts. Just under 1% of customers have opted-up to the 100% renewable GreenPrime program.

In support of SVCE, the Office of Sustainability has performed a number of actions, including:

- Participating in the Communications Working Group, to refine messaging and identify outreach channels for introducing SVCE to residents and businesses throughout the unincorporated County.
- Participating in the Sustainability Managers Roundtable, an ad hoc advisory group helping SVCE staff to brainstorm potential program ideas.
- Going forward, these Working Groups will be combined into a single Member Agency Working Group, given both crossover in representation, and the conclusion of initial enrollment.

Since the last update report in March, SVCE has:

- Approved a 2017-2018 operating budget (August 2017) that is expected to repay all outstanding debt (revolving and non-revolving lines of credit with River City Bank and startup contributions from partner jurisdictions) by the end of 2017 and that directs net revenue toward fully funding reserves before consideration of customer rate reductions or rebates.
- Approved the formation of a Citizens Advisory Committee (September 2017) that will report to the Board on local program development.
- Hired additional personnel, including a Legislative and Regulatory Manager, and additional marketing, outreach, and account services staff. Additional recruitments are currently underway.
- Initiated the search for a new CEO, as Tom Habashi left SVCE in September to lead Monterey Bay Community Power. Over 20 applications were received by mid-September, with interviews planned for mid-October and a final selection anticipated by the first week of November.

More information, and updates, can be found on the SVCE website: www.svcleanenergy.org.

California Public Utilities Commission (CPUC)

In an effort to support both SVCE and FAF, OOS continues to actively monitor CPUC proceedings relating to:

- The continuation, form and scale of future Power Charge Indifference Adjustment (PCIA) fees;
- The authority and duties of CCEs as Program Administrators under the CPUC's Energy Efficiency Portfolio (and funding); and
- The PGE General Rate Case, Phase II, in which the County is participating as a party in settlement negotiations around non-residential rates and time-of-use periods that could cause significant reductions in the projected financial savings from the Revenue for Renewables solar projects.

Bay Area Regional Energy Network (BayREN)

Under OOS, the County continues to be an implementer among the nine San Francisco Bay Area counties in the Single Family Energy Efficiency Residential Program, and a top performer among the nine counties in the Multi-Family Energy Efficiency Program. In addition, the Office of Sustainability continues to serve as the Single Family Residential Program Lead for all nine BayREN Counties, as well as the BayREN Representative in the CPUC's Statewide Energy Efficiency Marketing, Education and Outreach Program. The County's participation in the BayREN, including staff time, is grant-funded.

Since the inception of the BayREN Program, the County has facilitated the completion of over 1100 single family home upgrades, providing nearly \$2 million in incentives to Santa Clara County homeowners. In addition, BayREN has installed energy efficiency improvements in over 5,600 multi-family units, delivering nearly \$4.2 million in rebates to building owners in Santa Clara County. These improvements have collectively reduced energy usage by over 4 million kilowatt-hours (kWh) and nearly 400,000 therms, thereby avoiding an estimated 6,500 metric tonnes of CO₂.

Driving to Net Zero: Decarbonizing Transportation in Silicon Valley

The Office of Sustainability continues to partner with the Cities of Cupertino, Morgan Hill, Mountain View, Palo Alto, San Jose, and Sunnyvale, to plan for and improve alternative-fuel vehicle infrastructure deployment across the county. Recently completed tasks include a guide to best practices in local planning and building code development, as well as a countywide siting analysis, using both existing electric-vehicle ownership data, as well as modeled trip data from the Valley Transportation Authority (VTA). The project is grant-funded through the Strategic Growth Council and is anticipated to conclude by mid-2018.

Residential PACE (Property Assessed Clean Energy)

Staff continues to monitor developments surrounding Residential PACE, including developments at both the state and federal level. Recent state legislative changes include two bills that increase consumer protections around PACE assessments. Both are enrolled and awaiting the Governor's signature by October 15th.

- SB-242 requires oral confirmation of the terms of a PACE assessment by a homeowner. Previously only written confirmation was required.
- AB-1284 makes two major changes to consumer PACE protections. The first is to require "ability to pay" (measured through debt to income ratio) rather than just "likelihood to pay" (determined through credit history)

At the federal level, recent activity has been minimal. The most notable item was the introduction of the PACE Act of 2017 (S.838) in April, which proposes to impose Truth in Lending requirements on PACE assessments. To date, the bill has not moved forward at all.

Regarding local supplemental contractor standards, staff continues to work with both PACE administrators and the labor community to determine whether there standards that might be acceptable to all parties. In late 2016 and early 2017, labor groups including Working Partnerships USA and the Building Trades Council worked with several PACE administrators to draft a new version of the standards. While the participating administrators have indicated verbally an interest and willingness to sign off on the standards, they have yet to formally indicate their acceptance in writing. Staff will continue to work with both the PACE and labor communities and will return with an update once agreement on supplemental standards is reached.

Sustainability Master Plan / Environmental Stewardship Goals

On September 29, 2015, the Board unanimously approved a referral directing the Office of Sustainability to proceed with developing a Sustainability Master Plan (SMP), providing both a full-time Management Analyst position, as well as one-time funds for consultant services. The Board established that the Plan should form a comprehensive, cohesive, forward-facing government and community portfolio for cross-implementation of economic, environmental, and environmental sustainability strategies and measures, which are trackable, measurable and reportable; and specifically incorporate existing County policies and programs, such as the Environmental Stewardship Goals adopted in 2009.

In early 2017, OOS initiated the contracting process, background research, and stakeholder engagement, and in July hosted the first Sustainable County Working Group (SCWG) meeting. With feedback from the SCWG, OOS staff has updated the Framework for the Sustainability Master Plan and anticipates presenting this Framework to Board committees once the newly-hired Sustainability Director is on board and can provide feedback.

Once the Board has reviewed the Framework, OOS staff will proceed with hosting a Sustainability Charrette to review the existing Environmental Stewardship Goals, identify gaps and limitations, evaluate existing data resources across County departments, and develop recommendations for implementation and progress reporting. OOS will seek external feedback on the draft plan from outside partners including cities, private corporations, universities, research parks and non-profit organizations. OOS currently anticipates having a draft SMP ready for review by the SCWG in May 2018, with Board review to follow by September 2018.

CHILD IMPACT

Sustainability, energy and climate action programs, projects, and activities are undertaken by the County to serve the economic, environmental and social interests of the community, including those impacting children and youth.

SENIOR IMPACT

Sustainability, energy, and climate action programs, projects, and activities are undertaken by the County to serve the economic, environmental and social interests of the community, including those impacting seniors.

SUSTAINABILITY IMPLICATIONS

The recommended actions review, approve and support programs, projects, and activities that balance public policy and program interests, and which advance the Board of Supervisors' sustainability objectives to foster a healthy environment, protect resources and public health and safety, promote a diverse economy, and advance social equity and safety.

BACKGROUND

The Sustainability Office was established by the Board on August 24, 2010 and commenced operations on November 8, 2010. Among its directives, the Sustainability Office was tasked with promoting sustainability approaches, policies and programs throughout the County's departments and offices, as well as enhancing the County's regional, state and national leadership in climate mitigation, adaptation, and all other sustainability resource, equity, and economic sectors.

The Semi-annual and Annual Sustainability and Climate Action Reports are a means of recording and reporting progress back to FGOCC and the Board, and to serve as a public reference source.

ATTACHMENTS:

- Appendix A - Ameresco IGA Report (PDF)