



DATE: March 14, 2016

AGENDA ITEM # 3

TO: Environmental Commission

FROM: J. Logan, Staff Liaison

SUBJECT: Receive updates on Silicon Valley Clean Energy Authority, CCE community outreach and education, and *Business of Local Energy Symposium*

BACKGROUND

State and Local Mandates

State Assembly Bill 32, the Global Warming Solutions Act, was signed into law in 2006 and directed public agencies in California to support the state-wide target of reducing greenhouse gas (GHG) emissions to 1990 levels by 2020. In addition, California adopted ambitious energy and environmental policies to reduce state-wide greenhouse gas (GHG) emissions to 20% of 1990 levels by 2050 and, to provide 33% of electricity demands in 2020 from renewable resources utilizing clean energy technologies and environmental benefits.

To address the reduction of GHG emissions at the local level, the City Council adopted a Los Altos Climate Action Plan (CAP) on December 10, 2013. The CAP is a comprehensive strategy with goals and measurements to reduce GHG emissions within five focus areas: Transportation, Energy, Resource Conservation, Green Community and Municipal Operations. The CAP was adopted with a target of reducing the community's GHG emissions by at least 15% by 2020 and with an overarching plan for how the City can achieve up to a stretch-goal of 17% reduction in the GHG emissions by 2020.

Community Choice Energy

One method that has the potential to reduce the GHG emission associated with energy consumption is the establishment of Community Choice Energy (CCE), a system that allows cities, counties and Joint Power Authorities (JPA) to aggregate the purchasing power of an identified customer base within a defined area to secure alternative energy supply contracts with the goal of increasing the percentage of energy from renewable sources. The purchase of alternative energy supplies includes renewable sources such as hydroelectric, wind and geothermal as opposed to non-renewable fossil fuels such as coal, oil and natural gas. The consequences inherent in the use of fossil fuels to generate energy are particularly high carbon dioxide equivalents or GHG emissions which contribute to global warming. The ability to form CCEs has been adopted into law in California and a few other states.

In the 2005 Los Altos GHG Community Inventory baseline, residential and commercial electricity account for 18% of Los Altos community-wide GHG emissions. Reducing the GHG intensity of the electricity currently flowing through the PG&E grid by incorporating more energy from renewable sources is an effective way to directly reduce community GHG emissions. If by establishment of a CCE, Los Altos purchased electricity that was 25% cleaner than PG&E-provided

grid electricity, the use of renewal-source energy could potentially reduce overall city emissions by up to 4.5%. If 100% renewable/clean energy were purchased, Los Altos emissions could be reduced by up to 18% and could attain the 2020 stretch goal of 17% reduction in GHG. As such, implementing a CCE has the potential to rapidly reduce community GHGs more so than any other measure currently identified in the Climate Action Plan.

It is noted that the GHG reductions by 2020 are only the first step in the State's GHG reduction goals. The state is proposing additional targets for 2030 and 2050. The initiative of establishing community choices to purchase energy produced by renewal sources is quickly becoming a viable option to achieve GHG reductions. Currently operating Community Choice Energy Programs can demonstrate savings to residents on energy bills and the attainment of sufficient GHG reductions to propel communities to reach short and long-term state goals for clean energy.

In July 2013, the City of Los Altos Environmental Commission explored the concept of GHG reductions that could be achieved by Community Choice Energy and is continuing to hear presentations on the topic and take action for recommendations to Council.

Council Actions

City Council convened a study session on Community Choice Aggregation (Energy) on March 10, 2015 and directed the following action:

Action: Council members directed staff to submit an energy load data request to PG&E and directed the Environmental Commission to further investigate Community Choice Aggregation (Energy) business models and specific goals to be achieved for the City through a Community Choice Aggregation alternative.

The energy load data request to PG&E along with the required and executed Non-Disclosure Agreement was emailed on March 11, 2015. Copies of the communications and documents were provided to City Council on April 8, 2015.

The full staff report and video of the Council CCE study session is posted on the City Website at http://los-altos.granicus.com/GeneratedAgendaViewer.php?view_id=4&clip_id=911

DISCUSSION

South Bay CCE Informational Session

On April 3, 2015 the City of Sunnyvale sent invitations to Santa Clara County cities to participate in the South Bay Technical Feasibility Study currently composed of and partnered by the Cities of Sunnyvale, Mountain View, Cupertino and Unincorporated Santa Clara County. This partnership is investigating the feasibility of a Community Choice Energy program for the South Bay which is planned to initiate this summer. Three staff members from the City of Los Altos attended the information session held on April 9, 2015 in the City of Sunnyvale. Also in attendance via phone webinar were Mayor Jan Pepper, and Environmental Commission CCE Subcommittee members Chair Gary Hedden and Commissioner Don Bray. The CCE Subcommittee provided an update on the CCE informational session they attended to the Environmental Commission.

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CCE Subcommittee Activities

In accordance with direction given to the Environmental Commission by Council at the March 10, 2015 Study Session, the CCE Subcommittee convened meetings on March 12 and April 7, 2015 with Mayor Pepper and Staff Liaison J. Logan to formulate next steps to recommend at the April 13, 2015 Environmental Commission meeting and create a discussion document for the Environmental Commission to consider goals and the approach recommended by the CCE Subcommittee. The CCE Subcommittee recommended: 1) joining the South Bay Technical Feasibility Study; 2) convening a community stakeholder committee to guide the recommended study and to frame the CCE Goals and Options; and 3) formulating recommendations to Council for its April 28, 2015 meeting. The CCE Subcommittee lead this discussion at the April 13, 2015 Environmental Commission meeting and the Environmental Commission concurred with the recommendations.

At its April 28, 2015 meeting, Council received a staff report proposing CCE Goals and an Approach Plan to formulate and recommend a CCE business model. The April 13, 2015 Environmental Commission's direction and recommendations were incorporated into the staff report to Council. It was also recommended for the City to join the South Bay Technical Feasibility Study and a letter was sent on April 29, 2015 authorizing the use of electrical load data for the Study.

The Subcommittee met to review direction from the April 28, 2015 Council meeting and then presented a report to the Environmental Commission at its May 7, 2015 meeting. The Subcommittee received direction to move forward with the Study Approach Plan and report back to the Commission at its June 8, 2015 meeting.

Subcommittee activities in May and June, 2015

Between the May and July Environmental Commission meetings, the Subcommittee met weekly and convened phone conferences to discuss a list of predetermined questions and discussion points with: 1) the Mayor and the City Manager of Windsor, CA; 2) Peter Rumble, CEO California Clean Power; 3) Geof Syphers, CEO Sonoma Clean Power; Former Mayor of Cotati; and 4) met with two PG&E representatives regarding its green power and solar options. In addition, the Subcommittee convened many phone calls and sent emails to CCE resources and experts in order to better understand and define discussion points for interaction with speakers at its June 8, 2015 meeting. Peter Rumble, CEO California Clean Power, delivered a presentation at the June 8, 2015 Environmental Commission meeting. Members of the Subcommittee and the Staff Liaison attended the 2015 Energy Summit at Stanford University on June 25, 2015.

A Regular meeting of the Environmental Commission was held on July 13, 2015 and was immediately followed by a Study Session on CCE. Melody Tovar, Regulatory Programs Divisions Manager, City of Sunnyvale Environmental Services Department delivered a presentation on the Silicon Valley CCE Partnership (SVCCEP). Members of the community provided comments and discussion followed. Subsequently the Subcommittee met on July 24, 2015 to review the results of the Study Session and plan its report on CCE Goals, the Study Approach Plan and progress updates

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for the August 10, 2015 Environmental Commission meeting and for the CCE Interim Report to Council on August 25, 2015.

On August 25, 2015 the Environmental Commission presented a CCE Interim Report to Council and included an update on the progress of the Silicon Valley CCE Partnership. The CCE subcommittee held a phone conference with Melody Tovar, Regulatory Programs Divisions Manager, City of Sunnyvale Environmental Services Department, on the current time-lines and status of the community outreach efforts, JPA formation and use of media and social networks to engage the community in CCE formation efforts. Time-lines are established for the formation of the JPA. Yet to be determine are the final JPA agreement language and the fees to the initial participant cities for joining the JPA.

SVCCEP formation timelines:

1. Business webinar – Nov. 4, 2015
2. Key stakeholder meeting – Nov. 17, 2015; Sunnyvale Community Center; 6-8:30 pm
3. Executive committee and elected officials meeting – Nov. 19, 2015
4. CCE formation packets to initial participant cities – received on Dec. 9, 2015
5. Los Altos time-line
 - a. CCE subcommittee final CCE report to the Commission – Jan. 11, 2016
 - b. West county community CCE meeting in Los Altos LAYC center – Jan. 13, 2016
 - c. Commission final CCE report to Council – Jan. 26, 2016

At its December 14, 2015 meeting, the Commission discussed and provided edits to the CCE subcommittee for the CCE Final Report to Council on January 26, 2016. The CCE subcommittee met in January to finalize the input from the Commission. The CCE Final Report will again be presented to the Commission for a final review and approval at its January 11, 2016 meeting (Attachment A).

The Environmental Commission took action on December 14, 2015, to approve, with edits, the CCE Informational Sheet titled, *Los Altos Among Local Communities Evaluating 'Community Choice Energy'* for use in community outreach and education and to encourage community participation at the January 13, 2016, CCE Community meeting.

The Environmental Commission assisted with outreach efforts to promote the CCE Community meeting held at LAYC (Los Altos Youth Center) on January 13, 2016. The presentation provided information about SVCCEP's efforts to form a group of agencies under a Joint Powers Authority to establish a CCE Program within Santa Clara County.

On January 26, 2016, the Environmental Commission presented its Final CCE Report to Council. Council expressed appreciation to the Commission and directed staff to move forward with the necessary steps for membership in Silicon Valley Clean Energy Authority (SVCEA) and the establishment of a CCA program for Los Altos at its February 9, 2016 meeting. At its February 9 and February 23, 2016 meetings, Council finalized the steps for membership in SVCEA and

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establishment of a CCA for the City and appointed Councilmember Pepper as the SVCEA regular member of the Board of Directors and Commissioner Don Bray as the alternate member.

The subcommittee will present its report on events occurring with establishment of SVCEA, CCE community outreach efforts and attendance by the subcommittee at the March 4, 2016 *Business of Local Energy Symposium*

Attachment:

A. March 4, 2016, Agenda – *The Business of Local Energy Symposium*

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THE BUSINESS OF LOCAL ENERGY SYMPOSIUM

8:00 - 9:00 am	Registration
9:00 - 9:10	Introduction Ann Hancock, Center for Climate Protection
9:10 - 9:20	Welcome to San Jose – Hub of Innovation Sam Liccardo
9:20 - 9:30	The Potential of Community Choice for Silicon Valley: Economic Impact Russell Hancock, President & CEO of Joint Venture Silicon Valley
9:30 - 10:30	Keynote Interview: The Changing Context – Community Choice, and the Energy System, Regulations, and the Market Panelists: Carla Peterman, Commissioner, California Public Utility Commission Angelina Galiteva, Board of Governors, California Independent System Operator Moderator: Jeff Byron, former California Energy Commissioner
10:30 - 10:50	Break
10:50 - 12:00	Breakout Panels & Discussion Group 1. Nuts & Bolts of Community Choice Energy Formation Moderator: Shawn Marshall, LEAN Steve Schupe, Attorney Stephen Fleming, River City Bank Drake Welch, Noble Americas Energy Solutions Jamillah Jordan, MIG 2. Programs: Reducing Emissions While Building the Economy Moderator: Amy Rider, Sonoma Clean Power Justin Kudo, Marin Clean Energy Curtis Tongue, Ohmconnect Urvi Parekh, SunPower Martha Amram, CEO, WattzOn

3. Work in Process: Forming Community Choice Energy Agencies -
Issues and Opportunities

Moderator: Margaret Bruce, Manzanita Consulting Associates

Dave Pine, San Mateo County

Melody Tovar, City of Sunnyvale

Barbara Hale, San Francisco Public Utilities Commission

Joe Galliani, South Bay Clean Power – LA area

4. The Big Picture of Community Choice Energy Development

Moderator: Howard Choy, Office of Sustainability for the County
of Los Angeles

Sam Golding, Community Choice Partners

Joe Como, Formerly Office of Ratepayer Advocates

Gary Saleba, EES Consulting

5. Discussion Group: Bold Ideas to Optimize CCE Impact and
Sustainability

Jason Simon, Enphase Energy

Craig Lewis, Clean Coalition

David Erickson, California Public Utilities Commission

Andrew Cameron, Energy Producing Retail Realty

Facilitator: Brad Heavner, California Solar Energy Industries
Association

12:00 - 12:45

Lunch

12:45 - 1:20

Keynote

Distributed Energy Resources and Community Choice: Working
Together for the Local Economy

Lyndon Rive, CEO, SolarCity

1:20 - 1:35

Break

Breakout Panels & Discussion Group

1. Equity: Serving the Whole Community

Moderator: Woody Hastings, Center for Climate Protection
Ken Smokoska, California Renewable Energy Solutions and Technologies

Dolores Weller, Central Valley Air Quality Coalition
Gavriella Keyles, RE-volv

2. Advanced Programs: Going to the Next Level

Moderator: Don Bray, Joint Venture Silicon Valley
Robert Pierce, Shell Energy

David Kaneda, Integral Group
Mike Kempa, Siemens
Angie Boakes, Shell International Petroleum Company

3. Financing for Speed and Scale

Moderator: Rusty Klassen, Consultant
Ian Parker, Goldman Sachs

Mark Ferron, California Independent System Operator
Michael Berwanger, PFM Group

4. Water & Energy Nexus – Amplifying Impact

Moderator: Lauren Casey, Regional Climate Protection Authority
Cordel Stillman, Sonoma County Water Agency

Ned Orrett, Community Choice Partners
Martha Davis, Inland Empire Water District

5. Discussion Group: Community Choice Critical Issues, Policy and Next Steps for Accelerated Adoption

Facilitator: Ann Hancock, Center for Climate Protection
Barbara Boswell, Lancaster Choice Energy

Dawn Weisz, Marin Clean Energy
Geof Syphers, Sonoma Clean Power

1:35 - 2:45

2:45 – 3:00

Break

3:00 - 4:00

Panel: California Community Choice Leaders - Lessons Learned

Dawn Weisz, CEO, Marin Clean Energy

Geof Syphers, CEO, Sonoma Clean Power

Barbara Boswell, Director, Lancaster Choice Energy

Moderator: Ann Hancock, Center for Climate Protection

4:00 - 4:30	The Future of Local Energy Mark Ferron, Board of Governors, California Independent System Operator
4:30 - 4:40	Closing Remarks
4:40 - 6:00 pm	Happy Hour
