



CITY OF MILPITAS

Energy and Environmental Sustainability Commission

REGULAR MEETING

AGENDA

6 p.m.

Wednesday, February 19, 2020
City Hall 1st Floor Committee Conference Room

1. Call to Order
2. Pledge of Allegiance
3. Roll Call
4. Seating of Alternates
5. Approval of Agenda: February 19, 2020
6. Approval of Meeting Minutes: January 15, 2020

7. Public Forum

Members of the audience are invited to address the Commission on any subject not on the agenda. Speakers must state their name (address is optional) for the record, and limit their remarks to three minutes or less. For items not listed on the agenda, no response is required of City staff or Commissioners. However, Commissioners may ask staff to place the item on a future meeting agenda.

8. Announcements

9. Business Items

- a. Guaranteed Energy and Water Savings Facility Resilience Project Update
Background: Staff provided a preliminary update on the Guaranteed Energy and Water Savings Project to the City Council at its February 4, 2020 meeting and received feedback from the City Council on the conservation measures currently under evaluation. Attachment 1 includes the City Council Agenda Report on this item. Staff and the project consultants will provide a similar update to the Commission.

Recommendation: Provide feedback to staff as appropriate.

- b. 2020 Sustainability Events Calendar

Background: Staff are providing a calendar of sustainability related events identified and planned to date as information to the Commission. See Attachment 2. Additional events may be added during the course of the year.

Recommendation: Provide feedback to staff as appropriate.

10. City Liaison Reports

Report from Councilmember, if any

Report from staff, if any

11. Adjournment

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CITY OF MILPITAS

Energy and Environmental Sustainability Commission

MEETING MINUTES

6:00 p.m.

Wednesday, January 15, 2020

City Hall 1st Floor Committee Conference Room

CALL TO ORDER	Commissioner Martinez called the meetings to order at 6:04 PM. Staff Marshall called the roll.
ROLL CALL	PRESENT: Commissioners Martinez, Sexton, Badesha, Liu, Kong, Vice Mayor Nunez, Alternate Commissioner Lingle, Public Works Director Ndah and staff members Marshall, Lambert and Grand were also present. ABSENT: Commissioner Salian, Commissioner Shreve
PLEDGE of ALLEGIANCE	Commissioner Martinez led the pledge of allegiance.
ALTERNATE SEATING	Alternate Member No. 1 Lingle was seated.
APPROVAL OF AGENDA	Motion to approve the agenda for January 15, 2020 as submitted. Motion/Second: Sexton/Badesha Motion carried by a vote of AYES: 4 NOES: 0
APPROVAL OF MINUTES	Motion to approve the minutes for December 18, 2019 as submitted. Motion/Second: Sexton/Liu Motion carried by a vote of AYES: 4 NOES: 0
PUBLIC FORUM	No public comments
ANNOUNCEMENTS	Commissioner Sexton announced that the County of Santa Clara is holding a Climate Restoration Campaign launch on January 16 at 10 AM.
BUSINESS ITEMS	<i>Staff Update on Community Odor Monitoring Pilot</i> Staff Lambert presented an update on the City's Community Odor Monitoring Pilot Program. Staff described some options for displaying and sharing data with the community. Commissioners asked clarifying questions. Commissioner Martinez asked if our weekly odor monitoring is following days in the past where we had lots of complaints. Staff Lambert explained that summer months are usually the worst and the pilot will be a year long to cover seasonal fluctuations. Commissioners asked questions about how the monitoring locations were chosen and if there is flexibility to change them. Staff Marshall explained that these locations were based off past odor complaints and wind direction from the sources. She explained that the intent is to gather a robust set of data at each of the locations over a period of time and that staff and consultants will review the data and determine if a location change is warranted after several months. Commissioners gave staff feedback on their preferences for a resident facing dashboard. Commissioner Kong, liked how the maps show the locations and

intensity. Commissioner Lingle suggested a spider map for wind direction and wind speed and a time lapse heat map where residents can scroll through and see changes over time. Commissioner Sexton mentioned cumulative by season would be interesting and likes the odor characterization map with details. Commissioner Liu suggested we share the community dashboard on social media outlets such as NextDoor to keep the community updated.

Commissioner Martinez asked about the processes that could result in increased odor happening at the sources. Staff Marshall explained that BAAQMD is collecting that data through their South Bay Odor Attribution Study. The City will continue to collaborate with BAAQMD's study.

Commissioner Kong asked if we are communicating with BAAQMD during our monitoring days that we observed odors, so they can send inspectors. Staff will look into that in coordination with BAAQMD.

Commissioner Sexton suggested after the Pilot, if the City installs odor monitoring devices, Dixon Landing Road will be a good location.

Earth Day Event Planning

The City is holding an Earth Day event at April 18 at the Milpitas Library. It is the 50th Anniversary of Earth Day this year. An Ad Hoc group of the Commission met on January 4th and discussed ideas for Earth Day. Commissioner Sexton gave a summary of the Ad Hoc's discussion. Commissioners agreed they want the event to be youth focused and have a theme. Possible themes include Electrify your Life, Green Your Commute.

Commissioners brainstormed vendors, tables, and activities for the Earth Day event. Commissioner Sexton gave an update that the Thomas Russel Middle School students are willing to display their posters and videos that encourage living a sustainable lifestyle. The school is looking into if public showing of the videos is possible. Commissioners would like to invite all the vendors that were at the 2019 Earth Day Event and brainstormed new vendors to include.

In addition, Commissioner Lingle suggested having an announcement or something to share from the City.

Table 1 summarize the suggested activities and follow-up actions. Staff will take these suggestions and incorporate as many as possible into the day's activities.

LIAISON REPORT

No report.

ADJOURNMENT

Commissioner Martinez adjourned the meeting at 7:50 PM.

Table 1: Ideas for 2020 Earth Day

Milpitas Earth Day Ideas	Next Steps
Milpitas Bike Party/ Green Transportation - Encourage residents bike, walk, or carpool to the event - Set up a Bike Party where residents meet to bike over together	Commissioner Badesha will reach out to his contact who helps organize bike parties in San Jose. Staff will work on outreach to encourage residents to green their transportation to the event
EESC Commissioners Table - Display a timeline showing Major Earth Day milestones - Display a list of actions residents can take to support sustainability - Run classic EPA commercials on a laptop - Have giveaways (water bottles, bags, bookmarks)	Commissioners will continue to discuss ideas, schedule, and more.
Electric Vehicle Show and Tell - Invite EV owners to display their cars and talk to residents about their experience having an EV - MUSD new EV school buses	Staff will talk to the Library if the top floor of the parking garage can be used. Several commissioners and staff have EVs they can display.
Keynote Speech/ Welcome - Have a Councilmember give a welcome talk - Have an expert talk about green transportation and what having BART in the City will mean	Staff and the Commission will brainstorm expert speakers to reach out to.
Induction Cooktop Demonstration - Commissioner Sexton will show how fast an induction cooktop heats up	Commissioner Sexton will confirm details. Commissioners decided to not have food cooked on the premises for safety concerns.
Public Works Table - Information on actions the City is taking to be Green - Timeline of the City's sustainable actions (reach codes, water waste) - Display Community Odor Dashboard	Staff will organize a table, signs, and handouts
Pledge Board or Activity for Youth - Have kids commit to taking green actions - Activity such as making bracelets with different colors for each action - Poster where kids will sign their pledge	
E-Bike Display	

- Milpitas High Env. and Robotics Club can display their E-Bike designed for the SVCE competition	
Invite additional vendors to participate	Staff will reach out to the list of additional vendors that Commissioners compiled.
Tree Planting Event Outreach - Outreach for a tree planting event that will take place in April	Staff are currently trying to plan a tree planting event at a local park.



CITY OF MILPITAS AGENDA REPORT (AR)

Item Title:	Receive Update on Preliminary Energy and Water Savings Conservation Measures for Implementation on City Facilities and Land
Category:	Community Services and Sustainable Infrastructure
Meeting Date:	2/4/2020
Staff Contact:	Tony Ndah, 408-586-2602
Recommendation:	1. Accept the update on the Preliminary Energy and Water Savings Conservation Measures pertaining to the Energy Service Company (ESCO) Investment Grade Audit being implemented by Engie Services U.S. Inc. 2. Provide input to staff on Preliminary Conservation Measures.

Background:

On October 1, 2019, the City Council approved a Professional Services Agreement with Engie Services U.S., Inc. (Engie) to perform facility audits and equipment surveys in order to understand the City's current infrastructure and utility usage and to make recommendations for improvements that would result in energy and water savings for the City. Engie has been working with City staff to assess energy and water usage at the City's facilities and have prepared preliminary energy conservation measures, as part of an Investment Grade Audit (IGA) which will be provided to the City.

The Investment Grade Audit will contain a series of Energy Savings Measures (ECMs) where the projected savings derived from implementing the ECMs equal or exceed the cost of implementing the ECMs as measured over what is generally a 10-17 year financing term. The program is separated into two phases, each with several distinct elements. The first phase is project development and the second phase is implementation of the identified projects.

The components of the project development phase were incorporated into the professional service agreement. The components of the project implementation phase will be incorporated into one or more "Energy Services Contracts." Staff will be returning to the Council at a subsequent date to request approval of any Energy Services Contracts.

Analysis:

The Project Development phase has involved several stages of review of the City's assets in an effort to develop an IGA for the City. The IGA would provide a in-depth analysis of City property and facilities and is being conducted to an industry standard level of detail. The audits are used to identify ECMs at an investment grade level, meaning the degree of certainty in the savings associated with projects is high at the completion of this stage.

The completion of the IGAs will result in one or more groupings or "packages" of ECMs that are "feasible." A package of ECMs is feasible if--over the period of time needed to finance implementation of those ECMs--the combined savings from the ECMs is projected to exceed the combined cost of implementing the ECMs. Accordingly, not every individual ECM included in a "package" must have a projected savings that exceeds the projected cost of implementing that individual ECM.

PRELIMINARY ENERGY AND WATER CONSERVATION MEASURES:

As part of the IGA development process, Engie has developed preliminary ECMs for the City. Some of the measures that were identified for the City fall in the areas below:

1. Solar Photovoltaics and Electric Vehicle Charging – This measure would generate clean, on-site power via solar shade structures and rooftop canopies. This measure would also reduce PG&E charges and protect against rising energy costs. Additional EV charging stations for public and staff use are being considered in key locations City wide.
2. Battery and Energy Storage for Resiliency and Demand Savings – This measure would help the City avoid peak demand charges and optimize energy rates. Additionally, the battery and energy storage are being considered in conjunction with generators and controls to provide emergency backup power for critical infrastructure and facilities in the event of power outages or shutoffs in the City.
3. Street and Park Lighting – This measure would upgrade exterior lighting to energy efficient LEDs to reduce energy usage, reduce maintenance costs, improve safety, and provide consistency in lighting quality City-wide. Energy-efficient LED lighting is also being considered at outdoor sports fields for reduced maintenance, better visibility, and reduced light pollution.
4. Interior and Exterior Facility Lighting – This measure would upgrade lighting at City facilities to energy efficient LEDs to reduce energy consumption and maintenance costs. This measure also improves indoor lighting quality and safety in parking lots and exterior spaces.
5. Energy Management Systems – This measure provides City-wide consistency in energy management and control systems to allow easier and more efficient monitoring and adjustment of temperature in City buildings. This measure also allows City staff to have better control of heating and cooling, saving costs and staff time.
6. Heating, Ventilation and Air Conditioning (HVAC) Upgrades – This measure is being analyzed to consider repairing, optimizing, and/or replacing ageing HVAC systems, to reduce maintenance costs, extend equipment life, provide energy savings and improve building comfort.
7. High-Efficiency Transformers – This measure replaces old transformers with newer and more efficient units. This measure also reduces losses, both when operating and in stand-by modes, and improves site electrical infrastructure reliability.
8. Water Fixture Retrofits – This measure fine tunes valves and fixtures to reduce leakage and water waste and includes installation of water-efficient fixtures where necessary, focusing on user satisfaction.
9. Irrigation Controls – This measure improves efficiency and automates the City's irrigation systems to reduce water waste, maintenance, and staff time.
10. Water Meter Upgrades – This measure consists of City-wide replacement of residential and commercial water meters to Automated Metering Infrastructure (AMI). Completion of this measure reduces the necessity for manual meter reading, improves accuracy of billing, and leverages grant funding from regional agencies.
11. Supervisory Control and Data Acquisition System (SCADA) – This measure would design and install a SCADA system for City-wide water, wastewater, stormwater management. Implementation of this measure reduces costs, improves cybersecurity and system reliability.

The preliminary ECMs are being presented to Council for input, prior to refining the ECMs for inclusion in the IGA. The chart below outlines the Next Steps under the Project Development Phase.

Date	Milestone
February 4, 2020	Preliminary Energy and Water Conservation Measures Presentation to Council
February 17, 2020	Preliminary Energy and Water Conservation Measures Presentation to the Energy and Environmental Sustainability Commission
March 17, 2020	Presentation of Final Energy and Water Conservation Measures to Council
April 21, 2020	Council Approval of Energy and Water Conservation Measures and Program direction for Project Financing
Summer 2020	Begin Project Implementation Phase

The timing of the development and approval of the final Energy and Water Conservation Measures is being aligned with the scheduled review and approval of the City's Capital Improvement Program for FY 2020 – 25. This would allow the City to leverage the experience and resources of Engie to complete projects already identified in the City's Capital Improvement Program that are tied to the ECMs identified as part of the IGA.

Fiscal Impact:

Not applicable at this time. Fiscal impacts related to specific measures will be brought forward to Council in March.

California Environmental Quality Act:

The action being considered does not constitute a "project" within the meaning of the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines section 15378(a) as it has no potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment.

Recommendation:

1. Accept the update on the Preliminary Energy and Water Savings Conservation Measures pertaining to the Energy Service Company (ESCO) Investment Grade Audit being implemented by Engie Services U.S. Inc.
2. Provide input to staff on Preliminary Conservation Measures.

Attachments:

NA

Attachment 2.**2020 Sustainability Events**

Date	Event	Time	Location
2/8/2020	County Compost Workshop	10 AM -12 PM	Barbara Lee Senior Center 140/141
3/7/2020	Harvesting Rainwater & Building a Rain Garden Workshop	1:30 PM-3:30 PM	Barbara Lee Senior Center 140/141
3/21/2020	Water Efficient Organic Gardening Workshop	1:30 PM-4:30 PM	Barbara Lee Senior Center 140/141
4/4/2020	Drought Tolerant Habitat Gardens Workshop	1:30 PM-3:30 PM	Barbara Lee Senior Center 140/141
4/18/2020	Earth Day Resource Fair	1 PM- 5 PM	Milpitas Library
4/25/2020	Compost Giveaway	TBD	TBD
5/7/2020	Bike to Work Day	TBD	
5/9/2020	Gardening with Succulents Workshop	1:30 PM-4:30 PM	Barbara Lee Senior Center 140/141
5/16/2020	National River Cleanup Day	9 AM -12 PM	TBD
5/18/2020-5/22/2020	National Public Works Week	TBD	TBD
6/20/2020 (tentative)	Household Hazardous Waste Collection Event	TBD	TBD
8/15/2020	Hot August Bites	TBD	TBD
9/16/2020 - 9/22/2020	National Pollution Prevention Week	TBD	TBD
9/19/2020	Coastal Cleanup Day	9 AM -12 PM	TBD
10/10/2020	BAWSCA Landscape Workshop	9 AM -12 PM	Barbara Lee Senior Center 140/141
10/24/2020	BAWSCA Landscape Workshop	9 AM -12 PM	Barbara Lee Senior Center 140/141
11/7/2020	BAWSCA Landscape Workshop	9 AM -12 PM	Barbara Lee Senior Center 140/141
11/21/2020	County Compost Workshop	10 AM -12 PM	Barbara Lee Senior Center 140/141
12/5/2020	BAWSCA Landscape Workshop	9 AM -12 PM	Barbara Lee Senior Center 140/141