
CITY OF MILPITAS
ENERGY & ENVIRONMENTAL SUSTAINABILITY COMMISSION MEETING
REGULAR MEETING – AUGUST 21, 2019, 6:00 P.M.
CITY HALL 1ST FLOOR COMMITTEE CONFERENCE ROOM
455 E. CALAVERAS BLVD, MILPITAS CA 95035

- I. ROLL CALL**
- II. PLEDGE OF ALLEGIANCE**
- III. SEATING OF ALTERNATES**
- IV. APPROVAL OF THE MINUTES OF THE APRIL 17, 2019 ENERGY AND ENVIRONMENTAL SUSTAINABILITY (EES) COMMISSION MEETING**
- V. PUBLIC FORUM**

Members of the audience are invited to address the Energy and Environmental Sustainability Advisory Commission on any subject not on tonight's agenda. Speakers must state their name and address for the Secretary's record, and limit their remarks to under three minutes. As an item not on the agenda, no response is required of City staff or the Commission; however, the Commission may place the item on the agenda for a future meeting.

- VI. ANNOUNCEMENTS**
- VII. COUNCIL LIAISON REPORT**
- VIII. APPROVAL OF AGENDA**
- IX. NEW BUSINESS**
 - 1. BUILDING ELECTRIFICATION REACH CODES FOR NEW CONSTRUCTION**
 - 2. RECYCLABLES MARKETS IN RESPONSE TO CHINA NATIONAL SWORD POLICY AND MILPITAS DIVERSION RATES (PRESENTATION AND DISCUSSION WITH MILPITAS SANITATION)**
 - 3. NEW COMMISSIONERS HANDBOOK AND COMMISSION BY-LAWS**
- XI. FUTURE AGENDA ITEMS**
- XII. ESTABLISH NEXT MEETING DATE**
- XIII. ADJOURNMENT**

AGENDA INFORMATION

Copies of the agenda and supplemental documents relating to specific agenda items are available in the Public Works Department offices at 1265 N Milpitas Blvd. on Friday preceding a regularly scheduled meeting of the Energy and Environmental Sustainability Commission (third Wednesday of the month). A copy of the agenda is also available for review at the Milpitas Library. **A recorded agenda or minutes on standard cassette or printed in large type will be provided upon request to the Public Works Department for the visually impaired.** Additional information may be obtained from the Public Works Department, City of Milpitas, 1265 N Milpitas Blvd., Milpitas, CA 95035, (408) 586-2600 or e-mail at emarshall@ci.milpitas.ca.gov.

In compliance with the Americans with Disabilities Act, individuals requiring accommodation for this meeting should notify the Public Works Department 48 hours prior to the meeting at (408) 586-2600.

IX. NEW BUSINESS

1. BUILDING ELECTRIFICATION REACH CODES FOR NEW CONSTRUCTION

BACKGROUND:

Every three years, the State of California adopts new building standards that are organized in Title 24 of the California Code of Regulations, referred to as the California Building Standards Code. This regular update is referred to as a “code cycle.” The last code cycle was adopted in 2016 and was effective on January 1, 2017. The next code cycle will be adopted in 2019 and will be effective January 1, 2020. Cities and counties can adopt local amendments (otherwise known as “reach codes”) with requirements that are above the minimum state code requirements which can also become effective on January 1, 2020 along with the new Title 24 codes.

Building Electrification and Renewable Energy

The interest in building electrification and renewable energy is spurred by the success and high level of participation in Silicon Valley Clean Energy (SVCE) which has been providing 100% carbon-free electricity for the City of Milpitas since June 2018. More than 97% of Milpitas residential and business accounts are participating in SVCE, and as a result greenhouse gas emissions (GHG) were reduced by 59.3 million pounds from June to September 2018. Further elimination of natural gas usage through building electrification would significantly reduce remaining greenhouse gas emissions associated with buildings and is a significant step in the effort to minimize climate change.

Other benefits of electrification and renewable energy include on-bill savings for SVCE customers, cleaner, healthier indoor air quality, and greater safety due to the elimination of toxic and potentially lethal products of gas combustion such as carbon monoxide. For these reasons there is considerable interest in promoting higher levels of all-electric new construction, or “building electrification”. Mandating that new construction be all-electric is the more challenging path for various reasons, but is now available through the pathway provided by the 2019 Energy Code for the first time. In addition to the all-electric path, there are other pathways that utilize mixed fuel in buildings that the developers and builders can choose from to provide enhanced electrification and GHG reduction. The two basic pathways are:

- Achieving a higher energy efficiency level than the Energy Code using mixed fuels (natural gas and electricity) through the reach code amendments to the Energy code, or
- Achieving minimum efficiency as required in the 2019 Energy Code through all-electric construction. The Statewide Program’s study analyzed this approach.

Electric Vehicle Charging Infrastructure

Local residents are showing a significant interest in electric vehicles. For example, the number of registered plug-in vehicles in Santa Clara County increased by 31% in 2018. By comparison, registrations for vehicles powered by fossil fuels shrank in 2018. It is widely known that availability of EV charging infrastructure is a critical component to EV adoption. Meanwhile, it is significantly more expensive to install charging infrastructure as a retrofit than it is during new construction. As such, ensuring that newly constructed residential and non-residential parking has ample EV charging capability will reduce long-term costs of EV infrastructure installation,

while helping to increase EV adoption and decrease transportation-related greenhouse gas emissions. While California's new minimum requirements are a step forward, it is unlikely that the requirements for multi-family dwellings and non-residential buildings are enough to keep pace with expected EV growth looking towards 2030.

City staff have been working with Silicon Valley Clean Energy staff, as well as staff from neighboring jurisdictions around the Bay Area, to develop "reach codes" requirements that can be adopted by local cities to incentivize building electrification and require expanded EV charging station installations. Staff will provide an update on the regional effort and review proposed reach code requirements under consideration for Milpitas.

RECOMMENDATION: Receive report, discuss, and make recommendations to City Council consideration as needed.

2. RECYCLABLES MARKETS IN RESPONSE TO CHINA NATIONAL SWORD POLICY AND MILPITAS DIVERSION RATES

BACKGROUND:

China, historically the largest recyclable scrap importer in the world, has made it clear that they want to improve their environment by increasing the recycling of domestic recyclable materials. In 2017, China began implementing policies, often referred to collectively as National Sword, that restrict the importation of foreign recyclables. China plans to restrict imports of all 'solid waste' by the end of 2019. The policy changes in China have caused a significant increase in scrap imports to Southeast Asian countries. Without the inspection or processing capacity to meet the huge flow of materials diverted to their ports, countries like Vietnam, Thailand and Indonesia have begun to enact bans and inspection standards similar to those in China. These international policy changes are impacting recycling markets and programs throughout the United States. Representatives from Milpitas Sanitation will provide an update on the impacts on local recycling markets and Milpitas' solid waste diversion programs.

RECOMMENDATION: Receive report and discuss as needed.

3. NEW COMMISSIONERS HANDBOOK AND COMMISSION BY-LAWS

BACKGROUND: The City Council recently adopted a new Commissioners Handbook and standardized by-laws for all commissioners. Included in the handbook is information on areas such as participating in a public meeting, attendance, and the role of Commissioners, the staff, and Council liaisons. Copies of the handbook and by-laws will be provided and staff will review some of the key areas.

RECOMMENDATION: Receive handbook and by-laws.

XI. REQUEST FOR FUTURE AGENDA ITEMS

XII. ESTABLISH NEXT MEETING DATE

The next Regular Meeting of the Commission is scheduled for September 18, 2019 at 6 pm.

XIII. ADJOURNMENT

KNOW YOUR RIGHTS UNDER THE OPEN GOVERNMENT ORDINANCE

Government's duty is to serve the public, reaching its decisions in full view of the public. Commissions, boards, councils and other agencies of the City exist to conduct the people's business. This ordinance assures that deliberations are conducted before the people and the City operations are open to the people's review.

Materials related to an item on this agenda submitted to the Energy and Environmental Sustainability Commission after initial distribution of the agenda packet are available for public inspection at the Public Works Department at
1265 N. Milpitas Blvd., Milpitas during normal business hours.

For more information on your rights under the Open Government Ordinance or to report a violation of the ordinance, contact the City Attorney's office at Milpitas City Hall,
455 E. Calaveras Blvd, Milpitas, CA 95035 Phone : 408-586-3040
E-mail: cdiaz@ci.milpitas.ca.gov

The Open Government Ordinance is codified in the Milpitas Municipal Code as Title I Chapter 310 and is available online at the City's website www.ci.milpitas.ca.gov by selecting the Milpitas Municipal Code link.

MINUTES

CITY OF MILPITAS ENERGY & ENVIRONMENTAL SUSTAINABILITY COMMISSION

Minutes: Meeting of the Energy & Environmental Sustainability Commission
Meeting Date: April 17, 2019
Meeting Time: 6:00 PM
Meeting Place: Milpitas City Hall, Commission Meeting Room

- I. ROLL CALL** Staff called the Energy and Environmental Sustainability Commission to order at 6:05 PM. Commissioners Martinez, Sexton, and Kong, Alternate Commissioner Liu, and Councilmember Nuñez were present. Staff members Marshall, Phagan, Ndah, Erickson, and Xu were also present.

II. PLEDGE OF ALLEGIANCE

III. SEATING OF ALTERNATES

Alternate Commissioner Liu was seated.

IV. APPROVAL OF THE MINUTES OF THE MARCH 20, 2019 ENERGY AND ENVIRONMENTAL SUSTAINABILITY (EES) COMMISSION MEETING

M/S: Kong/Sexton Ayes: All

V. PUBLIC FORUM

Members of the audience are invited to address the Energy and Environmental Sustainability Advisory Commission on any subject not on tonight's agenda. Speakers must state their name and address for the Secretary's record, and limit their remarks to under three minutes. As an item not on the agenda, no response is required of City staff or the Commission; however, the Commission may place the item on the agenda for a future meeting.

VI. ANNOUNCEMENTS

City Clerk Mary Lavelle wished to thank all commissioners for submitting the Form 700 on time.

Earth Day Event will be on Saturday, April 20, 2019 from 12-4 PM at the Milpitas Public Library.

Council approved a new standard commission bylaws on April 16, 2019.

VII. COUNCIL LIAISON REPORT

South Bay Odor Stakeholders next quarterly meeting is Thursday, April 18, 2019. Commissioners Kong and Sexton toured the ZWED facility.

VIII. APPROVAL OF AGENDA

M/S: Liu/Kong Ayes: All

IX. NEW BUSINESS

1. GREEN INFRASTRUCTURE PLAN

The City of Milpitas is subject to the requirements of the Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit for Phase I municipalities and agencies in the San Francisco Bay area (Order R2-2015-0049), also known as the Municipal Regional Permit (MRP). The MRP requires Permittees, including the City of Milpitas, to develop and implement a long-term Green Stormwater Infrastructure (GSI) Plans for the inclusion of LID measures in storm drain infrastructure on public and private lands, including public streets, roads, parking lots, building roofs, and other elements. The City has contracted with EOA Inc. to assist with the development of the City's GSI Plan. Jill Bicknell, Principal Engineer from EOA, Inc. by a presentation on the requirements that need to be included in a GSI Plan and the City's progress in developing its GSI Plan.

The GSI Plan will establish Green Stormwater Infrastructure (GSI) goals for cities to accomplish. The plan for GSI is to retrofit parking lots, parks, and public right-of-way areas so that stormwater runoff is directed into green capture devices, such as pervious surfaces, vegetation, green roofs, or bioretention basins. Opportunities for incorporation of GSI include complete streets/safe routes to school/bike route projects, downtown revitalization, municipal facilities, and park/athletic field improvements.

Commissioners asked clarifying questions about maintenance costs for potential GSI. Staff members Ndah, Erickson and Xu noted that there can be additional maintenance costs for GSI areas, such as litter pickup and maintenance of bioretention basins or maintenance of pervious pavement areas. Commissioner Sexton asked about the success of anti-littering campaigns. Staff member Ndah stated that the City is partnering with Milpitas Sanitation, but that the City experiences illegal dumping in cycles. Commissioner Kong asked if the milestones or goals set forth by the Regional Water Board were specific. Ms. Bicknell responded that the current permit does not require specific commitments, but that agencies must demonstrate efforts to identify and prioritize GSI projects through their GSI Plans.

XI. FUTURE AGENDA ITEMS

There will be no July meeting.

XII. ESTABLISH NEXT MEETING DATE

Next meeting is scheduled for May 15, 2019.

XIII. ADJOURNMENT

The meeting of April 17, 2019 concluded at 6:50 PM.

M/S: Sexton/Kong Ayes: All