



AGENDA

CITY OF EL SEGUNDO

ENVIRONMENTAL COMMITTEE

MEETING LOCATION: ZOOM MEETING

DUE TO THE COVID-19 EMERGENCY,
THIS MEETING WILL BE CONDUCTED
PURSUANT TO THE GOVERNOR'S
EXECUTIVE ORDER N-29-20.

REGULAR MEETING OF THE
EL SEGUNDO ENVIRONMENTAL COMMITTEE
FRIDAY, July 10, 2020 – 12:00 P.M.

How Can Members of the Public Observe and Provide Public Comments?

Residents are encouraged to participate remotely in the virtual Environmental Committee Meeting. Please contact Senior Management Analyst Jasmine Allen for connection details (jallen@elsegundo.org or 310-524-2365). Members of the Public may provide comments electronically by sending them to Jasmine Allen via email, with a limit of 150 words and accepted up until 30 minutes prior to the meeting. The emails will be read to the Environmental Committee during public communications and are subject to disclosure under the Public Records Act.

Additional Information

The Environmental Committee, with certain statutory exceptions, can only take action upon properly posted and listed agenda items. Unless otherwise noted in the Agenda, the public can only comment on City-related business that is within the subject matter jurisdiction of the Environmental Committee, and items listed on the Agenda during the **Public Communications** portion of the meeting.

In compliance with the Americans with Disabilities Act, if you need assistance to participate in this meeting, please contact the City Clerk (310) 524-2305. Notification 24 hours before the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

1. CALL TO ORDER
2. ROLL CALL
3. PUBLIC COMMUNICATIONS – (Related to City Business Only and for which the Committee is responsible – 5 minute limit per person, 30 minute limit total) *While all comments are welcome, the Brown Act does not allow the Environmental Committee to take action on*

any item not on the agenda. Environmental Committee members may respond to comments after Public Communications is closed.

4. REPORTS: PUBLIC WORKS – *this portion of the agenda is for City staff to provide brief reports to the Committee. These are “receive and file,” non-action items only. Any actions needed to be taken must be included on an upcoming agenda.*

- a. Planning and Building Safety representatives (Director Lam Lee and Manager Sia Poursabahian) will answer questions from the Environmental Committee members regarding “Green Building” practice in El Segundo. Attached - PBS comments regarding Committee’s findings and recommendations.
- b. Public Works to share with the Committee “Environmental Resources” new website content.
- c. Public Works to inform that “Upon Request Plastics” enforcement has been suspended until August 20, 2020 due to COVID-19 pandemic and hardship to the industry.
- d. Public Works to inform the Committee “EC Council Update” is postponed for September 1, 2020 per Committee Chair request.

5. ACTION ITEMS: None

6. REPORTS: ENVIRONMENTAL COMMITTEE MEMBERS – *this portion of the agenda is for members to discuss various ideas and for subcommittees established by the Committee to provide brief reports on the work being done by the subcommittee. These are “receive and file,” non-action items only. Any actions needed to be taken must be included on an upcoming agenda.*

- a. Solid Waste Reduction/Elimination of Single-Use Plastics (Caroline Hawks/Tracey Miller-Zarneke): discuss reinstating Ordinance No. 1612 (EL SEGUNDO MUNICIPAL CODE TITLE 5 TO REQUIRE AN “UPON REQUEST” POLICY FOR PLASTIC STRAWS, STIRRERS AND UTENSILS) due to new evidence that plastic does not help prevent the spread of COVID19. (2 attached documents)
- b. Green Business Recognition Program (Corrie Zupo): provide update regarding the discussion with Chamber of Commerce and next steps.
- c. Water Conservation (Rachel McPherson): discuss research progress.
- d. Green Construction Standards (Kristin Faivre/Sarah Brockhaus): present/discuss findings with Planning & Building Manager (attached report from previous meeting for reference).
- e. Smoking Ban (Kevin Maggay): discuss research in progress.
- f. 2020 Earth Day: discuss rescheduling Earth Day event when permissible; share an update from South Bay Eco Festival Earth Week event in which video from El Segundo was included (attached image)

- g. Beekeeping: present/discuss request to consider asking for ordinance to allow beekeeping in El Segundo (attached article)
- h. Update to City Council: discuss timing and content for next presentation

7. CONSENT AGENDA: Approval of March 6, 2020 Committee Meeting Minutes.
Recommendation: Approval.

8. ADJOURNMENT



El Segundo Green Building

PREPARED BY THE EL SEGUNDO ENVIRONMENTAL COMMITTEE

What is Green Building?

- ▶ “A holistic concept that starts with the understanding that the built environment can have profound effects, both positive and negative, on the natural environment, as well as the people who inhabit buildings every day. Green building is **an effort to amplify the positive and mitigate the negative of these effects** throughout the entire life cycle of a building.”*
- ▶ The planning, design, construction, and operations of buildings with central considerations:
 - ▶ energy use,
 - ▶ water use,
 - ▶ indoor environmental quality,
 - ▶ material selection, and
 - ▶ the building's effects on its site.*



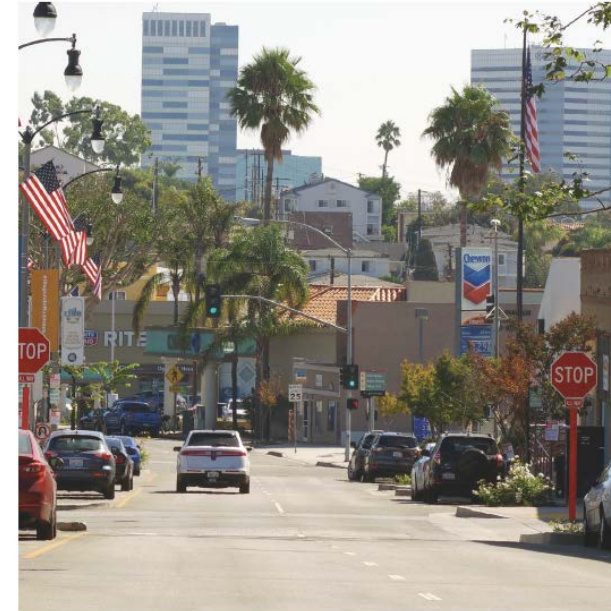
El Segundo's Climate Action Plan

- ▶ Prepared by the South Bay Cities Council of Governments
- ▶ Adopted by the City via Resolution on November 21, 2017
- ▶ Tool to identify community-wide strategies to lower GHG Emissions
- ▶ Aligns with the State's goals and anticipated policy development
- ▶ Selected Strategies – Land Use and Transportation, Energy Efficiency, Solid Waste, Urban Greening, Energy Generation & Storage

CLIMATE ACTION PLAN



City of El Segundo

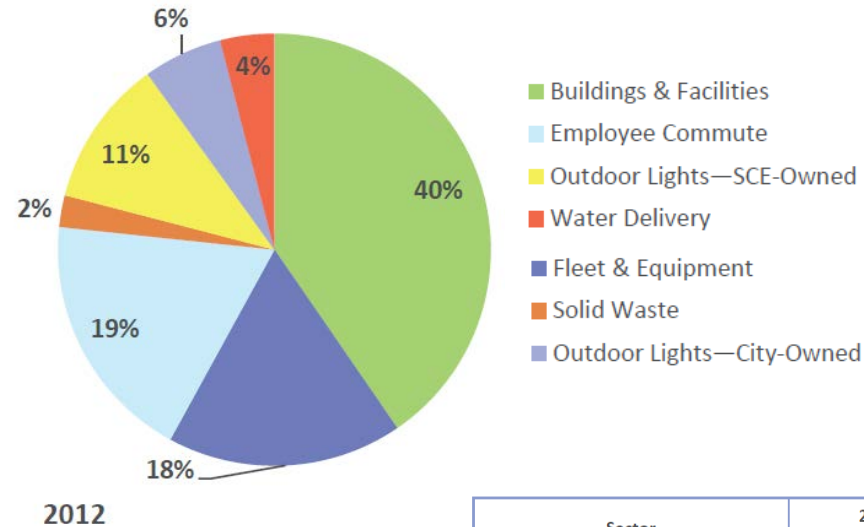


SOUTH BAY CITIES
COUNCIL OF GOVERNMENTS

South Bay Cities 2017

El Segundo's Climate Action Plan

- ▶ Potential to accomplish reduction of 49% below 2005 levels by 2035
- ▶ **Buildings & Facilities accounted for 40% of municipal GHG emissions (2012)**
- ▶ **Commercial & Residential Energy use rose by 27.4% and 2.6% respectively from 2005 to 2012**
- ▶ Measures in El Segundo's CAP cover green building on a variety of fronts



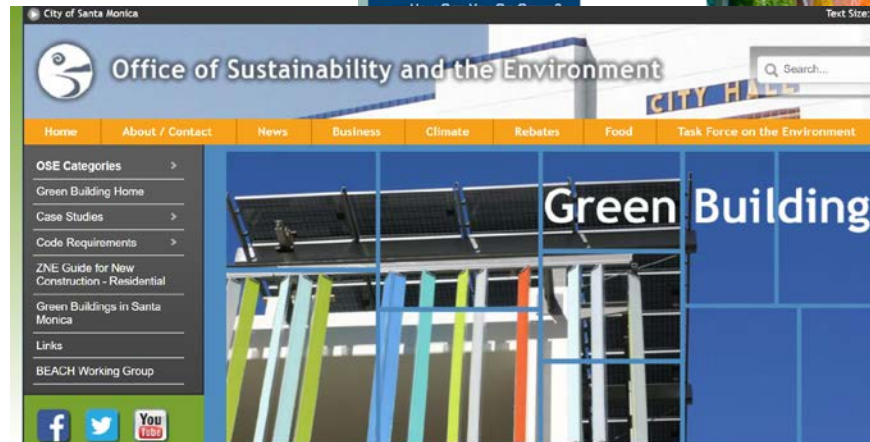
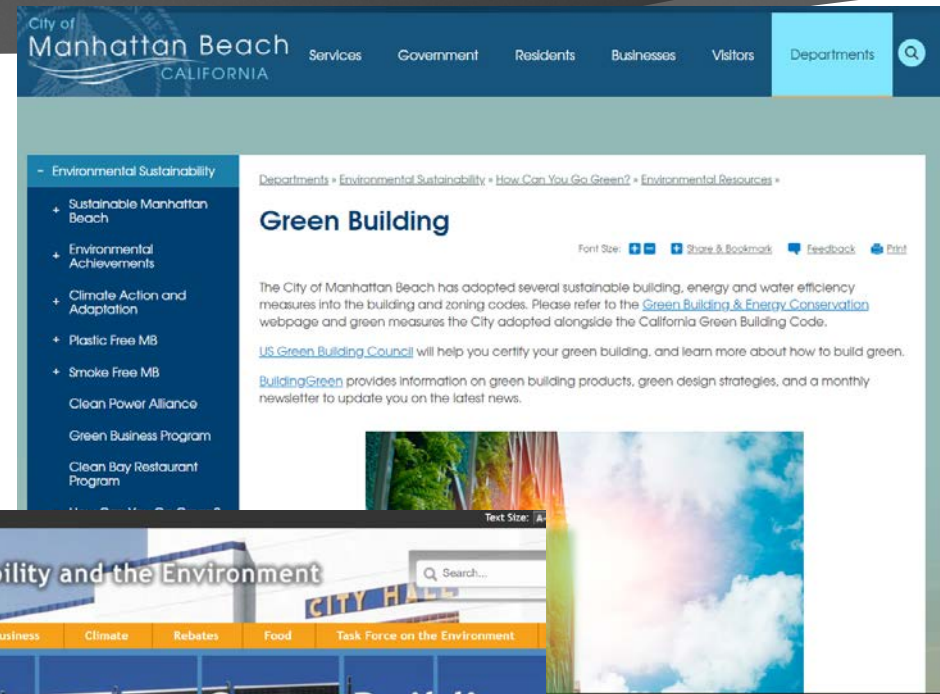
Sector	2005 (MT CO ₂ e)	2012 (MT CO ₂ e)	% Change 2005 to 2012
Commercial Energy	327,488	417,367	27.4%
On-Road Transportation	231,200	245,360	6.1%
Residential Energy	24,758	25,392	2.6%
Solid Waste	19,297	12,350	-36.0%
Off-Road Sources	482	774	60.6%
Water	166	33	-80.1%
Wastewater	65	51	-21.5%
Total	603,456	701,327	16.2%

Green Building Considerations

- ▶ Education and Outreach
- ▶ Rebates and Incentive programs
- ▶ Green Building Codes
- ▶ REACH Codes

Education and Outreach

- ▶ Website Content and Events
- ▶ Neighboring City Examples:
 - ▶ City of Manhattan Beach
 - ▶ City of Santa Monica
- ▶ Public Forums
 - ▶ South Bay Environmental Services Center: Green and Sustainable Curriculum, Certificate and Degree Programs



Education – Case Studies

- ▶ Santa Monica Locations
 - ▶ Civic Center Parking Structure
 - ▶ Pico Branch Library
 - ▶ Annenberg Beach House



Rebates and Incentive Programs

- ▶ Rebate and incentive Options
 - ▶ Expedited permitting process for green projects
 - ▶ Rebate programs
- ▶ Neighboring City examples:
 - ▶ Culver City's Green Zone Incentive Program:
 - ▶ Culver City plan check and permit fees in an amount not to exceed \$5,000 per project may be waived for energy efficiency improvements
 - ▶ City of Hermosa Beach:
 - ▶ 50% of permit fee for zero net energy, energy upgrade;
 - ▶ 50% when you install one, or 100% when you install two or more of: EV Charging; Photovoltaic Solar; Small Wind System; Renewable Battery Storage
 - ▶ 50% off fee for demonstration of new technology, materials, or construction method designed to reduce water, waste, or energy use and agreement to share results/feedback

Green Building Codes

- ▶ Green Building Codes – seek push building design and construction standards to new levels of sustainability and performance
 - ▶ Prescriptive (materials and equipment meeting certain levels of stringency) *
 - ▶ Performance-based (require achievement of particular results)*
- ▶ California Green Building Code (CALGreen) – Title 24, Part 11 California Code of Regulations
 - ▶ Applies to planning, design, operation, construction, use, and occupancy of every newly-construction building or structure on a statewide basis; also applies to alterations which increase building's conditioned area, volume, or size**
 - ▶ Consideration of recent/upcoming standards associated with CALGreen

*Source: <https://www.wbdg.org/resources/green-building-standards-and-certification-systems>

**Source: <https://www.hcd.ca.gov/building-standards/calgreen/index.shtml>

Green Building Codes

▶ Neighboring City examples:

▶ City of Manhattan Beach:

- ▶ Green Building Code effective January 2017
- ▶ Adopts USGBC LEED green building rating system as standard
- ▶ Requires LEED certification based on project type/size as outlined in table
- ▶ Code also contains additional requirements to that of CALGreen



Manhattan Beach Green Building Code	
Project Type/Size	Certification Requirement
New City Buildings = / > 5,000 SF	LEED Gold
Renovations City Buildings = / > 5,000 SF	LEED Gold
New Non-residential Buildings = / > 10,000 SF	LEED Silver
Renovations Non-residential = / > 10,000 SF	LEED Silver

*Source: § 6, Ord. 13-0027, eff. January 1, 2014; § 6, Ord. 16-0032, eff. January 7, 2017

**Source of image: <https://www.wbdg.org/resources/green-building-standards-and-certification-systems>

Green Building Codes

▶ More examples:

▶ Culver City:

- ▶ Green Building Code effective 2009
- ▶ Adopts green building checklist requirements and USGBC LEED green building rating system as standard based on project size
- ▶ Code also contains additional specific requirements to that of CALGreen

▶ Los Angeles County

- ▶ As of late 2016, all LA County new construction projects over 10,000 gross square feet or more are required to be LEED Gold

Culver City Green Building Code	
Project Type/Size	Requirement
Category 1 All New Buildings & Major Renovations = / < 49,999 SF	Must comply with at least 80% of 25 item Checklist Applicability of items determined by Building Official on per project basis
Category 2 All New Buildings & Major Renovations = / > 50,000 SF	LEED Certified

*Source: Ord. No. 2009-004 § 1 (part); Ord. No. 2019-015 § 15 (part)

**Source: <https://www.hcd.ca.gov/building-standards/calgreen/index.shtml>

REACH Codes

- ▶ Energy codes that “reach” beyond state minimum requirements for energy use in design and construction*
- ▶ City of Santa Monica:
 - ▶ New Construction Energy & Green Building Reach Code – Code Compliance Pathways (all-electric or mixed-fuel) – higher standard for efficiency and solar for designs that include natural gas use**
 - ▶ Policy for Municipal Buildings:
 - ▶ LEED Gold Certification
 - ▶ Net-Zero Energy Certification from International Living Future Institute
 - ▶ Zero potable water use for non-potable end uses

	Code Compliance Pathways*	
	All-Electric	Mixed-Fuel (Electric & Natural Gas)
Single-Family & Multi-Family (3 stories or less)	Efficiency + Solar: Meet State Code (no local reach code)	Efficiency + Solar: Must meet CalGreen Tier 1 1. Achieve a Total Energy Design Rating of ≤ 10 2. Complete Quality Insulation Installation (QII) 3. Plus one of the following: • Roof deck insulation or ducts in conditioned space; or • High-Performance Walls; or • HERS-Verified Compact Hot Water Distribution with Drain Water Heat Recovery
Multi-Family (4+ stories) & Hotel	Efficiency: Meet State Code Minimum Solar: 2 watts/sq. ft. of bldg. footprint	Efficiency: 5% better than State code Minimum Solar: 2 watts/sq. ft. of bldg. footprint
All Other Non-Residential	Efficiency: Meet State Code Minimum Solar: 2 watts/sq. ft. of bldg. footprint	Efficiency: 10% better than State code Minimum Solar: 2 watts/sq. ft. of bldg. footprint
New Heated Pools	Heat-pump and/or Solar	N/A, Gas Pool Heating Prohibited
Major Additions	Solar for Single Family/Duplexes: 1.5 watts/sq. ft. of addition Solar for all others: 2 watts/sq. ft. of addition's footprint	

* All Projects: Title 24 Certificate of Compliance must be authored by a Certified Energy Analyst (CEA).



*Source: <https://www.nrdc.org/experts/pierre-delforge/san-joses-proposed-building-reach-code-explained>

**Source of text & image: https://www.smgov.net/Departments/OSE/Categories/Green_Building/Reach_Code_Resources_-_Tips.aspx

More on LEED

- ▶ LEED (Leadership in Energy and Environmental Design) is a third party green building certification and the most widely used and adopted green building standard in the world.
- ▶ An industry-recognized & familiar standard among industry professionals & public/private entities
 - ▶ Private and public entities with LEED policies/requirements:
 - ▶ UCLA, Starbucks, Google & Facebook
 - ▶ Comments from Manhattan Beach on developer and contractor adoption/impact: _____
 - ▶ Comments from developer/contractors in El Segundo area:
 - ▶ Mark Talez (Smokey Hollow Developer) is supportive of a green construction or green business recognition program

LEED Projects in El Segundo 46 Certified Projects; 61 Total Applicants	
Certified	27
LEED Silver	11
LEED Gold	6
LEED Platinum	3

*Source: <https://www.usgbc.org/leed/why-leed>
<https://www.starbucks.com/responsibility/global-report/environmental-stewardship/green-building>
<https://sites.google.com/a/lbl.gov/green-clean-mean/flagship-projects/google>
<https://sustainability.fb.com/innovation-for-our-world/sustainable-workplace/>

More on LEED

- ▶ Los Angeles World Airports (LAWA):
 - ▶ Design and Construction Handbook (July 2019) with sustainability embedded
 - ▶ City of Los Angeles released an Energy and Water Efficiency Ordinance and LAWA did cost-benefit analysis studies and decided to adopt LEED Silver
 - ▶ LAWA RFPs require respondents to provide a checklist of how LEED Silver will be achieved
 - ▶ LEED Silver will help airport achieve energy and water reductions
 - ▶ LAWA investigating LEED Gold and requiring sub-meters for future construction projects in order to meet L.A.'s Green New Deal carbon neutral by 2050 requirements



<https://cloud1lawa.app.box.com/s/mia5xcuiyea2qp34pid5ld013ow2a6zn>
<https://www.betterbuildingsla.com/>
<https://www.lamayor.org/mayor-garcetti-launches-la%E2%80%99s-green-new-deal>
<https://supervisorkuehl.com/la-county-adopts-leed-gold-standard/>
Conversation with Samantha Bricker (LAWA Environmental)

More on LEED

▶ ROI of LEED Certification:

- ▶ Increased asset value—high-quality, high-performance standards— higher sale prices
 - ▶ (2013-2014: Non-Green Building asking price of \$220/SF and average market sales price of \$244/SF; LEED certified buildings average asking price \$140/SF and average sales price \$329/SF)
- ▶ Achieve long term operational savings (increased operational efficiency)
- ▶ Attract tenants and command higher rental/lease rates
- ▶ Increased occupancy rates
- ▶ Meet ESG goals
- ▶ Improved health and productivity of occupants
- ▶ Better manage the performance of their buildings*



ROI of 19.2% for existing buildings and 9.9% on new buildings

*Sources: <https://www.usgbc.org/leed/why-leed>;
<https://www.lbbassociates.com/achieve-roi-with-green-buildings/>;
<https://www.alpinme.com/leed-roi-what-is-the-return-on-investment-of-leed-certified-buildings/>

Findings & Recommendations

- ▶ Third party green building certification (LEED) is advantageous for El Segundo as a green building policy because it:
 - ▶ Reduces administrative and enforcement burden on City Officials
 - ▶ Building Officials verify certification from third party
 - ▶ Doesn't create specific additional code requirements which need individual inspection
 - ▶ **Improves the health and long term vitality of the built environment (and reduces negative environmental impacts) in El Segundo and furthers goals set out in City's CAP**
 - ▶ Covers multiple Co-Benefits identified in the City's CAP



Co-Benefits of Green Building

- ▶ Co-Benefits: Additional community benefits from implementing City's CAP reduction strategies
- ▶ City identified eight areas where gains may be accrued beyond reductions in GHG emissions
- ▶ **Green Building policies cover all eight Co-Benefits**



Findings & Recommendations

- ▶ Overall:
 - ▶ Improve website content and outreach
 - ▶ Require LEED Certification in tiered increments for new construction or renovation
 - ▶ Create Opt-In or Opt-Out terms where permit fees increase if applicant “opts out” of LEED requirements
 - ▶ Consider additional requirements to CALGreen based upon unique considerations of the community (the City has adopted CALGreen, but can create additional standards to address specific areas of interest to El Segundo)

Proposed El Segundo Green Building Code	
Project Type/Size	Certification Requirement
New Construction / Renovations City Buildings = or >5,000 SF	LEED Silver or Higher
New Construction / Renovations Non-residential Buildings >5,000 SF and <10,000 SF	LEED Certified or Higher
New Construction / Renovations Non-residential Buildings >10,001 SF and <50,000 SF	LEED Silver or Higher
New Construction / Renovations Non-residential Buildings >50,001 SF	LEED Gold or Higher
New Construction / Renovations Multi-Family Housing >10,000 SF	LEED Certified or Higher

Additional Resources

- ▶ Website with examples of green building policies for various cities and counties: [Green Building Ordinances & Policy Examples](#)

PBS Comments regarding EC recommendations for Green Building

The Building Division is currently enforcing the State Green Code adopted by the City as part of 2019 California Building codes.

The EC is recommending for a third party to issue a [LEED](#) Certificate for the projects subject to the proposed City Green program, and the Building Official will be only responsible to "...[verify certification from the third party.](#)"

Based on the PowerPoint, Building Division will not do any Plan Review to verify a project complies with the proposed City Green Code, instead the project will be referred to a third part (no details have been provided about how a project is referred and to whom). If this is the case, then Building Division will not have a problem with the proposed City Green Code, and we can ensure a LEED Certificate is submitted before we final a permit and issue a certificate of Occupancy, if and when required.

Is that a correct summary of the Building Division involvement?

By my prior quick review of the PowerPoint provided to me before, I have the following comments which I think it is not addressed by the EC and it should be when presented to the Council (just my opinion):

- What is the benefits of the LEED over the California Green Code? There is no comparison provided in the PowerPoint.
- What is the cost to the applicants for the projects subject to the proposed City Green Code? This is an additional review by a third party for which the applicant will bear the cost.
- Will the new review by the third party delay plan review process and issuance of a permit?
- Will there be a guideline for the third party to complete its review within a set goal?
- Is it a right time to implement a new program and impose a new cost to the applicants during the slow down due to COVID-19?
- What are the incentives proposed under the City Green program? Are there any Zoning code incentives, such as allowing for larger building vs. what the current code allows (FAR)?
- Has Planning reviewed the proposed zoning incentives, if any, to make sure they are consistent with the City Specific Plans?
- Will any of the proposed incentives affect the Planning and Building Division revenue negatively?



Health Expert Statement Addressing Safety of Reusables and COVID-19

Reuse and refill systems are an essential part of addressing the plastic pollution crisis and moving away from a fossil fuel-based economy. They can create jobs and help build local economies. The COVID-19 global pandemic has triggered a discussion of how to ensure the safety of reusable systems in a public health crisis. Based on the best available science and guidance from public health professionals, **it is clear that reusable systems can be used safely by employing basic hygiene.** Below are the key facts to keep in mind.

Available Evidence Indicates that the Virus Spreads Primarily from Inhaling Aerosolized Droplets, Rather than through Contact with Surfaces

According to the US Centers for Disease Control and Prevention (CDC), “The virus is thought to spread mainly from person-to-person...between people who are in close contact with one another, through respiratory droplets produced when an infected person coughs, sneezes or talks.”¹ While “it may be possible that a person can get COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or possibly their eyes,” aerosolized droplets are the only documented method of COVID-19 transmission to date.²

Disposable Products Present Similar Issues As Reusable Ones

Studies show that the COVID-19 virus can remain infectious on surfaces for varying times depending on the material. One study showed infectious virus lasted up to 24 hours on paper and cardboard and between 2-3 days on plastic and stainless steel^{3,4} In another study, infectious virus was not found on print or tissue paper after just three hours, whereas it was active up to 1 day on cloth, up to 3 days on glass, and 6 days on plastic and stainless steel.⁵ To prevent transmission through objects and surfaces, one can assume that any object or surface in a public space — reusable or disposable — could be contaminated with the virus. Single-use plastic is not inherently safer than reusables, and causes additional public health concerns once it is discarded.

¹ <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>

² <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/cleaning-disinfection.html>

³ <https://www.nejm.org/doi/full/10.1056/NEJMc2004973>

⁴ [https://www.thelancet.com/journals/lanmic/article/PIIS2666-5247\(20\)30003-3/fulltext](https://www.thelancet.com/journals/lanmic/article/PIIS2666-5247(20)30003-3/fulltext)

⁵ [https://www.thelancet.com/journals/lanmic/article/PIIS2666-5247\(20\)30003-3/fulltext#coronavirus-linkbac%20k-h%20ader](https://www.thelancet.com/journals/lanmic/article/PIIS2666-5247(20)30003-3/fulltext#coronavirus-linkbac%20k-h%20ader)

Reusable Products are Easily Cleaned

Most common approved household disinfectants⁶ should be effective for disinfecting hard surfaces, including reusable items, with such surfaces being cleaned thoroughly using a detergent or soap and hot water prior to disinfection if they are visibly dirty. Dishwashers and washing machines should be effective if operated according to manufacturers' instructions and, in the case of laundry, using the warmest appropriate water setting for the items and drying items completely. Similarly, washing hands with soap and water or an alcohol-based hand rub, and then avoiding touching your eyes, mouth, or nose are effective ways to protect yourself.^{7,8}

Best Practices for Reusable Products in the Retail Space

1. Comply with food safety/ health codes. Within retail and foodservice, reusable plates, cutlery, cups, and napkins are governed by strict state food safety procedures outlined in health codes. Ware-washing at high temperatures with additional sanitizing procedures are standard in the industry and provide more than adequate protection against virus transmission.

2. Use additional hygienic practices for COVID. The bottom line is that reusable items are safe to use when cleaned with soap and water, and there is no substitute for thorough hygiene. Retail food establishments should follow Food and Drug Administration guidance regarding retail practices and COVID-19 safety.⁹

3. Employ contact-free systems for customers' personal bags and cups. Systems in which there is no contact between the customer's reusable cup, container or bag and retail surface areas can protect workers and provide a precautionary approach to addressing COVID-19 transmission. For example, California's Occupational Safety and Health Administration recommends that "when customers bring their own bags, employees should be instructed to:

- Not touch or place groceries in customer brought bags.
- Ask customers to leave their own bags in the shopping cart.
- Ask customers to bag their own groceries

4. Ensure that workers are protected. In addition to investing in safe and accessible reusable systems, other steps retailers can take to protect workers include providing PPE, paid sick leave, reduced occupancy in stores, and requiring customers to wear masks and practice social distancing. Customers should handle their own reusable items when going to shops and stores.

⁶ <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>

⁷ <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/cleaning-disinfection.html>

⁸ [https://www.journalofhospitalinfection.com/article/S0195-6701\(20\)30046-3/fulltext](https://www.journalofhospitalinfection.com/article/S0195-6701(20)30046-3/fulltext)

⁹ <https://www.fda.gov/food/food-safety-during-emergencies/best-practices-retail-food-stores-restaurants-and-food-pick-up-delivery-services-during-covid-19>

List of Signatories by Country/Region

Titles and affiliations are included to show the breadth and depth of expertise of signatories and are not included to imply endorsement by their employers.

Brazil

Dr. Saulo Delfino Barboza, PhD
Associate Professor Master Program
in Health & Education University of
Ribeirao Preto

Mexico

Dr. Kirvis J Torres
Poveda
Epidemiologist

Canada

Dr Joe Vipond
Emergency Physician - MD. Interim
President, Canadian Association of
Physicians for the Environment Canadian
Association of Physicians for the
Environment

Joey Lee
Registered Nurse
Unity Health Toronto

Olga Hallborg, RN, MPH
candidate
Registered Nurse Nelson Jubilee
Manor

Laurence Guillaumie, PhD
Professor Université
Laval

United States of America

Nickolas Zaller, PhD
Professor University of Arkansas for
Medical Science

Dr. Steve Luby Professor of Medicine
(Infectious Diseases and Geographic
Medicine), Director of Research at the
Center for Innovation in Global Health,
Senior Fellow, Woods Institute for the
Environment, Senior Fellow at Freeman
Spogli Institute for International Studies
Stanford University

Dr. Tova Fuller Assistant Clinical
Professor, Department of Psychiatry; Vice
President University of California San
Francisco, San Francisco Bay Area
Physicians for Social Responsibility

Dr. Barbara Sattler, RN, DrPH,
FAAN Professor, Public Health
Program University of San Francisco

Dr. Paul English
Environmental Epidemiologist Public
Health Institute Corinna Tempelis
Research Scientist (retired and active)
California Department of Public
Health

Shellie L. Klimen, MSN PHN
Registered Nurse Santa Rosa
Memorial Hospital

United States of America (cont.)

Michelle Bergen MSN
FNP-BC Nurse Practitioner
Saint Anges Medical Center

Kenna Lee, RN
Registered Nurse Memorial
Hospital

Peggy da Silva, MPH
Training and Education Specialist
Consulting for Community

Kathleen Roe, DrPH, MPH Professor
Emerita, Department of Health Science
and Recreation San Jose State
University

Jodi Sherman, MD
Associate Professor of Anesthesiology and
Epidemiology in Environmental Health
Sciences, Director, Program in Healthcare
Environmental Sustainability (PHES) Yale
University

John Nwangwu
Professor of Epidemiology & Global Health
Southern Connecticut State University

Mark Miller
Former Director of Research Fogarty
International Center
NIH

Linda Birnbaum
Retired Director
National Institute of Health Sciences

Dr. Anthony Panzera, PhD,
MPH Adjunct Professor
American University

Dr. Lisa Jordan, PhD, RN, CNE
Retired NurseMember of ANHE, IAHC,
and DC/MD League for Nursing

Dr. Laura Anderko PhD RN
Robert and Kathleen Scanlon Endowed
Chair in Values Based Health Care &
Professor Georgetown University School
of Nursing and Health Studies

Alan Becker, Ph.D.
Professor, Environmental and Occupational
Health Florida A&M University

Warren Lavey
Adjunct Associate Professor University of
Illinois

Sarah Patrick
Assistant Professor, Public Health
Southern Illinois University,
Carbondale
Gloria E. Barrera, MSN, RN, PEL-CSN
President Elect Illinois Association of
School Nurses

Gloria E. Barrera, MSN, RN, PEL-CSN
President Elect Illinois Association of
School Nurses

Jennifer Gray Ph.D
Associate Professor
Northern Illinois University
Scott Cassel Chief Executive
Officer/Founder Product
Stewardship Institute, Inc.

Sydney Harris
Sr. Associate, Policy and Programs
Product Stewardship Institute, Inc.

Scott Cassel
Chief Executive Officer/Founder Product
Stewardship Institute, Inc.

Nate Horwitz-Willis, DrPH, MPH, MPA
Assistant Professor, Public Health &
Coordinator of Public Health Practice
Massachusetts College of Pharmacy and
Health Sciences

Jean Flatley McGuire, PhD
Professor of Practice, Health Sciences
Department Northeastern University

Dr. Shira Fischer
Physician Policy Researcher RAND
Corporation

Dr. Suzanne Cashman, ScD, MS
Professor and Director of Community
Health University of Massachusetts Medical
School

Greylin Nielsen, MPH
Doctoral Student Boston University
School of Public Health

Dr. Harlee Strauss, PhD
Retired, Consultant in Toxicology and
Risk Assessment H Strauss Associates,
Inc.

Pietra Check, MPH
Course Educator
Boston University Medical
School

Phil Brown
University Distinguished Professor of
Sociology and Health Sciences
Director, Social Science
Environmental Health Research
Institute Northeastern University

Lindsay Tallon, PhD, MSPH, CPH
Assistant Professor of Public Health
Assistant Director, Master of Public
Health Program Massachusetts
College of Pharmacy and Health
Sciences

Craig Slatin
Professor Emeritus University of
Massachusetts, Lowell

Dr. Marie O'Neill
Professor of Environmental Health Sciences
and Epidemiology University of Michigan
School of Public Health

Laura Senier, PhD, MPH
Associate Professor Northeastern
University Bouvé College of Health
Sciences

Joseph Eisenberg
Professor and Chair of the Department
of Epidemiology University of Michigan

Renee Crichlow MD, FAAFP
Director of Advocacy and Policy University
of Minnesota, School of Medicine

Marjorie McCullagh, PhD, RN
Professor University of Michigan School
of Nursing

Dr. Robyn Gilden
Assistant Professor University of
MD School of Nursing

Dr. Kolapo DaSilva
Emergency Physician

Megan Latshaw
Associate Scientist
Johns Hopkins Bloomberg School of Public
Health

Kayla Meza, MPH
Research Assistant
ASIsso

Dr. Richard Cote
Professor and Chair, Department of
Pathology & Immunology Washington
University School of Medicine in St. Louis

Lise Saffran
Assistant Teaching Professor University of
Missouri Department of Public Health

Louis Mansky, PhD
Director, Institute for Molecular Virology
University of Minnesota Medical School

Greg Kearney, DrPH, MPH, REHS
Associate Professor and Program Director,
DrPH Environmental & Occupational
Health East Carolina University

Dr. Beth Rosenberg
Associate Professor of Public Health and
Community Medicine Co-Chair, Public
Health Admissions Committee Tufts
University School of Medicine

Anthony L. Schlaff, MD, MPH
Director, Public Health Program
Tufts University School of
Medicine

Dr. Bernadette M. Longo, PhD, RN,
FAAN Chair of the Environmental Health
Committee Nevada Nurses Association

Mary Guinan, MD, Ph.D.
Founding Dean Emerita School of
Public Health, University of Nevada,
Las Vegas

Kathryn J Carey BSN RN CMSRN RN-BC
Clinical Nurse III New York Presbyterian
Hospital, Columbia University Irving
Medical Center

Anthony J. Santella, DrPH, MCHES,
Adv Cert
Associate Professor of Public Health
Hofstra University

Dr. Richard Novick, MD
Recanati Professor of Science, Emeritus,
Member, National Academy of Sciences,
Departments of Medicine and
Microbiology NYU School of Medicine

Jilliann Elliott
Associate Professor,
Environmental Medicine and Public
Health Mount Sinai

Sergios-Orestis Kolokotronis, PhD
Assistant Professor SUNY Downstate Health
Sciences University

Michele Okoh
Senior Lecturing Fellow
Duke Environmental Law and Policy
Clinic

Leslie Elliott, Ph.D., MPH
Clinical Associate
Professor University of
Nevada, Reno

Justus B. Cohen, PhD
Assistant Professor, Department of
Microbiology and Molecular Genetics
University of Pittsburgh, School of Medicine

Michael P. Koster, MD, FAAP
Division Director, Pediatric Infectious
Diseases, Associate Professor of
Pediatrics, Alpert Medical School of Brown
University, Attending Physician, Division of
Pediatric Hospital Medicine and Infectious
Diseases Brown University

Kelly Bouthillet DNP, APRN, CCNS,ACNP
-BC
Acute Care NP & Clinical Nurse Specialist
Adjunct Nursing Faculty, University of SC,
Beaufort President, South Carolina Nurses
Association Hilton Head Regional
Healthcare

Dr. John Robert Koethe
Associate Professor Vanderbilt
University Medical Center

Arsham Alamian, PhD, MSc, FACE
Associate Professor of Epidemiology
Department of Biostatistics and
Epidemiology Director, Master of Public
Health Program East Tennessee State
University

Phillip Scheuerman
Professor East Tennessee State University
College of Public Health

Bruce Jennings
Senior Fellow, Center for Humans and
Nature, Adjunct Associate Professor, Senior
Advisor at the Hastings Center Vanderbilt
University

Chunrong Jia, PhD
Associate Professor of Environmental Health
University of Memphis

Julian Leibowitz, M.D.Ph.D.
Director, MD/PhD Program Professor of
Microbial Pathogenesis and
Immunology Texas A&M University
HSC College of Medicine

Hua Zhao, Ph.D.
Professor The Virginia Commonwealth
University School of Medicine

Patrick O. Pithua, BVM, MSc, PhD,
DLSHTM
Associate Professor Virginia Tech

Dr. James Conway, MD, FAAP
Professor of Pediatrics Pediatric Infectious
Diseases Fellowship Program Director
Director, SMPH Office of Global Health
Associate Director, UW-Madison Global
Health Institute Medical Director - UW Health
Immunization Program University of
Wisconsin – Madison, School of Medicine &
Public Health

Tran Huynh
Assistant Professor of Environmental
and Occupational Health Drexel
University School of Public Health

Dr. Darci Martinz DNP & FNP candidate,
BSN, RN
Public Health Administrator Community
Leadership Academy/Victory Preparatory
Academy

Dr. Ben Locwin
Healthcare Executive (Pharmaceuticals and
Vaccines), State Public Advisor State
Science & Public Health Task Force,
Senate Office Advisory Panel

Anne Katten
Pesticide and Work Safety Project
Director CRLA Foundation

Elgin Avila MPH, CPH
Founder/Principal Investigator
Equitable Health Solutions, LLC

Dr. Krista Farey
Staff Physician Contra Costa County
Health Services

Richard Rothenberg
Regents' Professor Georgia State
University School of Public Health

Dr. Lisa Jordan
Associate Teaching Professor, Biology
Department Drew University

Erika Halsey, MPH
APHA member, Climate and Health Subtopic
Committee

Dr. Shanda Demorest, DNP,
RN Member Engagement
Manager Practice Greenhealth

Katheryn Cortes, BSN, RN, OCN
Registered Nurse Memorial
Sloan-Kettering Cancer Center

Ralph Brindis MD, MPH
Clinical Professor of Medicine
University of California, San Francisco

Laura D. Kramer
Professor of Biomedical Sciences University
at Albany, School of Public Health

Jeffrey E. Korte PhD

Rosemary Valedes Chaudry, PhD, MPH, RN
Retired RN, Public Health

Austria

Dr. Hans-Peter Hunter
Deputy Head and Senior Scientist
Department of Environmental Health,
Medical University of Vienna.

France

Dr. Barbara Demeneix
Professor Comparative Physiology
Laboratory, National History
Museum, Paris United Kingdom

United Kingdom

Dr. Jennifer Cole
Research Fellow, AMR
University of London

Prof. Tamara Galloway
Ecotoxicology,
University of Exeter

Prof. Charlotte Williams
Professor of Chemistry
Oxford University

Italy

Ferdinando Laghi, MD
President International Society of
Doctors for the Environment

Dr. Monica Zoppé
Research Scientist
CNR

Vittore Casarosa
Senior Research Associate
CNR-ISTI

Liliana Cori
Research Technologist Institute of
Clinical Physiology, National Research
Council, Italy IFC-CNR

Dr. Agostino Di Ciaula, MD
Internist President of the Scientific
Committee International Society of Doctors
for Environment (ISDE) – Italy

Dr. Stefani Gatti
Presidente APS Comunità
Interattive-Officina per la Partecipazione
AIP2

Dr. Susan George
ex Head of Course on Business, Public
and NGO Communication Pisa University

Cyprus

Dr. Konstantinos Makris
Associate Professor of Environmental
Health, Director of Water and Health
Laboratory Cryprus University of
Technology, Cyprus International Institute
for Environmental and Public Health

Greece

Vini Dimitra
Paediatrician, MSc,
Director of Thalassaemia Unit General
Hospital of Nikaia

Lia Patsavoudi, Ph.D.
Professor of Biology Dept. of Biomedical
Engineering, University of West Attica

Uganda

Dr. Iddi Matovu
Program Manager-DREAMS Rakai
Health Sciences Program-RHSP

Dr. Fred Nalugoda, S. Stat, MHS
Director of Kalisizo Field Station, Junior
Principal Investigator Rakai Health
Sciences Program-RHSP

Dr. Godfrey Kigozi, MBChB, MPH
Medical Officer, Junior Principal Investigator
Rakai Health Sciences Program-RHSP

Malawi

Vita Mithi
Researcher and Public Health Professional
Knowledge Action Change

Tunisia

Semia Gharbi
Teacher and expert in science and
management of environment
AEEFG

South Africa

Rico Euripidou
Environmental Health Campaign Manager
groundwork

Philippines

Dr. Geminn Louis C. Apostol
Professor and Lead Environmental Health
Specialist, Ateneo School of Medicine and
Public Health Ateneo School of Medicine and
Public Health

Malaysia

Dr. Sharifah Norkhadijah Syed Ismail
Senior Lecturer, Department of
Environmental and Occupational Health
Faculty of Medicine and Health Sciences
Universiti Putra Malaysia

Taiwan

Tsu-Nai Wang
Professor, Department of Public Health,
College of Health Science, Kaohsiung
Medical University, Kaohsiung

Dr. Pei-Shih Chen, PhD
Chair, Professor of Public Health
Kaohsiung Medical University

Guey Chuen Perng, PhD
Professor, Department of Microbiology
and Immunology College of Medicine,
National Cheng Kung University

Switzerland

Jane Muncke
Chief Scientific Officer
Food Packaging Forum

Plastic Pollution Spawned by Pandemic Already Hitting the Oceans

By Alexandra Yetter

June 23, 2020, 7:33 AM

- Single-use masks and gloves detected in waters
 - Mainly result of littering, poor disposal systems
-

A new kind of plastic has been showing up in the oceans in recent months—personal protective equipment—joining the discarded plastic straws, bags and other detritus polluting the waters.

The appearance of gloves, masks and other gear in oceans comes as the coronavirus pandemic forces hard trade-offs between health and the environment. Some use of plastic in PPE is necessary, especially for medical personnel. But widespread adoption by the general public is adding to the load of marine plastics.

“We’re creating massive amounts of waste thinking it’s protective,” said Ellie Moss, a principal at Moss & Mollusk Consulting for environmental strategies for companies. “We need to make sure this crisis doesn’t result in a mountain of waste.”

Ocean plastic pollution threatens marine life when fish and marine mammals ingest it or become entangled in it.

PPE appearing in ocean waters only a few months after the pandemic erupted shows how quickly plastic can pollute waterways, Moss said.

Soaring Plastic Production

The pollution is mainly caused by litter washed into bodies of water, but another source is countries such as India that don’t have strong waste disposal systems, said Moss, who with Jambeck and others wrote a recent “blue paper” on ocean pollution for the High Level Panel for Sustainable Ocean Economy, a project of 14 world leaders and the United Nations secretary-general’s special envoy for the ocean.

Global plastic production has exploded, from 1.7 million metric tons per year in 1950 to 422 million metric tons/year in 2018. Both micro- and macro-plastics can enter the ocean through direct discharge, discharge into rivers that then flow into the ocean, runoff from land or deposit from air into waterways, according to the blue paper.

An open-source mobile app, the Marine Debris Tracker, is detecting the plastic protective gear by making it possible for people to report what kind of trash they’re spotting in the ocean, said Jenna Jambeck, the developer of the tracker and an associate professor of environmental engineering at the University of Georgia.

‘Life and Death’ Difference

The plastics industry sees disposable PPE as essential equipment.

“Single-use plastics have been the difference between life and death during this pandemic,” such as bags that hold solutions administered intravenously, ventilators, gloves, and masks, the Plastics Industry Association, also known as PLASTICS, said in a statement.

The organization said it wants to protect the environment through increased proper disposal and recycling of PPE, saying it would be good for ecosystems and economies.

Honeywell International Inc. declined to comment and 3M Co. didn’t immediately respond to a request for comment. Honeywell and 3M are two PPE manufacturing companies with the largest market share.

Nonmedical Uses

Moss said that while plastic is needed in a medical context, that isn’t necessarily the case for individuals.

There’s no evidence of reusable products like cloth masks, gloves, and bags being dangerous to use, she said. In fact, a study published by the New England Journal of Medicine found that Covid-19 lasted longest on plastic and stainless steel.

Reusable products like bags and cups are safe to use during the coronavirus pandemic as long as basic hygiene practices are employed, Greenpeace USA Inc. said Monday in a statement endorsed by more than 100 health experts worldwide.

Single-use plastic isn’t inherently safer than reusable products, as the virus can remain infectious on both surfaces for varying lengths of time, it said, adding that reusable or disposable products can be cleaned with widely used household disinfectants, such as soap and detergent.

The Environmental Protection Agency is “aware of media reports” of PPE pollution and “supports state and local efforts to ensure that these materials are properly disposed of in landfills,” an agency spokesperson said.

The EPA advises disposing of disinfectant wipes, gloves, masks, and other PPE in garbage bins and keeping it out of recycling bins.

To contact the reporter on this story: Alexandra Yetter in Washington at ayetter@bloombergindustry.com

To contact the editors responsible for this story: Gregory Henderson at gHenderson@bloombergindustry.com; Renee Schoof at rschoof@bloombergindustry.com

Related Articles

[Plastics Had Been Falling Out of Favor. Then Came the Virus \(1\)](#) March 16, 2020, 11:14 AM

[Single-Use Plastics Make a Comeback on Pandemic Fears \(1\)](#) May 1, 2020, 4:17 AM

[California Suspends Plastic Bag, Recycling Rules in Virus Order](#) April 24, 2020, 4:21 AM

Redondo Beach Legalizes Beekeeping

Potential beekeepers can keep hives in their back yards if they obtain a \$45 annual permit from the city of Redondo Beach.

By [Nicole Mooradian, Patch Staff](#)

Jun 25, 2012 10:08 pm PT|Updated Sep 18, 2013 1:47 pm PT

<https://patch.com/california/redondobeach/redondo-beach-legalizes-beekeeping>

Apiophiles, rejoice—beekeeping is now legal in Redondo Beach.

With a unanimous vote Tuesday, the city council took another step in allowing beehives in back yards when it approved the proposed fee for beekeeping permits.

The council established a residential beekeeping permit program at the beginning of June after North Redondo Beach resident Ed Garcia petitioned the council for a permit. At the time, the municipal code considered beekeeping a nuisance unless people who wanted to keep hives in their back yards received a permit from the city council.

In the past 100 years, Garcia was only the fourth person to request such permission, according to a report from city staff.

For an annual fee of \$45, people who wish to keep hives in their back yards can apply for a permit.

In addition, potential beekeepers must abide by certain requirements set by city staff. Hives may only be maintained on a single-family residential property, and are limited to one colony per 3,750 square feet of lot area. A maximum of two hives are allowed on any property.

Each colony, which must be kept in an "inspectable" hive with moveable frames and combs and well-maintained, must be registered as required by the California Food and Agricultural Code and Los Angeles County. Additionally, beekeepers must first register with the city's municipal services unit.

Hives must be kept 10 feet away from any property line, and 15 feet away from any public property or home. Entrances should face away from or parallel to the nearest property line. In addition to these regulations and others, hives must be "re-queened"—that is, keepers must replace the existing queen with a new one—at least once every two years to prevent swarming. Hives must also be re-queened following any swarming or aggressive behavior.

According to the Redondo Beach Police Department's list of proposed fees and revenue impact, the city expects to issue two beekeeping permits during the fiscal year 2012-2013.

Click on image to Select Videos



Sharon Cohen, South Bay Eco Festival Chair

Sharon Cohen discussing how the Festival came together during COVID-19 on NBC Morning News.



Senator Ben Allen

Watch this important message about the need to tackle the climate crisis without delay.



El Segundo & the South Bay Eco Festival

El Segundo Mayor Drew Boyles & Environmental Committee Chairperson Tracey Miller-Zarneke celebrate...



Richard Montgomery, Mayor of Manhattan Beach

Welcome and Earth Day Message from the Mayor



Mayor of Hermosa Beach, Mary Campbell

Wishing everyone in the South Bay a Happy Earth Day 2020. One great way to celebrate Earth Day this year ...



Hildy Stern, Manhattan Beach Councilwoman

A message about collective action from Hildy Stern



CITY OF EL SEGUNDO ENVIRONMENTAL COMMITTEE MEETING MINUTES

Friday, March 6, 2020, 12:00 p.m.

City Hall, West Conference Room, 350 Main Street, El Segundo, CA 90245

1. CALL TO ORDER

Tracey Miller-Zarneke called to order the monthly meeting of the Environmental Committee (EC) at 12:16pm, on Friday, March 6, 2020 in the City of El Segundo, City Hall West Conference Room, 350 Main Street, El Segundo, California, 90245.

2. ROLL CALL

The following Committee Members were present:

- Tracey Miller-Zarneke, Resident, Local Business, Committee Chair
- Kristin Faivre, El Segundo School District, Member
- Rachel McPherson, Resident, Member
- Corrie Zupo, Resident, Committee Vice-Chair
- Kevin Maggay, Local Business, Member
- Caroline Hawks, Resident, Member

The following Committee Members were not present:

- Sarah Brockhaus, Resident, Member

The following City staff member(s) / Council member(s) were present:

- Jasmine Allen, City of El Segundo, Senior Management Analyst

3. PUBLIC COMMUNICATION

None

4. NEW BUSINESS

Jasmine Allen shared local restaurant owner, Chef Hannes', composting experience and community composting ideas for El Segundo.

5. REPORTS: CITY STAFF

- a. Jasmine Allen updated the Committee on their meeting with Tracey Miller-Zarneke and Corrie Zupo regarding the "Environmental Resources" new website pages.



CITY OF EL SEGUNDO ENVIRONMENTAL COMMITTEE MEETING MINUTES

- b. Jasmine Allen informed the Committee that Building Manager will attend the next meeting to learn about Committee's findings and recommendations regarding Green Buildings.
 - c. Jasmine Allen requested all "EC Council Update" FINAL documents be submitted four weeks prior to the meeting.
6. ACTION ITEMS:
 - a. Environmental Committee Overview Presentation for City Council: Motioned by Rachel McPherson and seconded by Corrie Zupo. Motion carried 6-0. The Committee will also ask Council to include CCA, Green Construction on their Strategic plan.
7. REPORTS: ENVIRONMENTAL COMMITTEE MEMBERS
 - a. Work Plan: Committee members to update on their progress and discuss strategy for top five committee goals:
 1. Solid Waste Reduction/Elimination of Single-Use Plastics (Caroline Hawks/Tracey Miller-Zarneke): Discussed additional work in progress beyond creation of Single-Use Plastics Educational Packet.
 2. Green Business Recognition Program (Corrie Zupo): No update.
 3. Water Conservation (Rachel McPherson): No update.
 4. Green Construction Standards (Corrie Zupo/Kristin Faivre/Sarah Brockhaus): Corrie presented Green Building Findings and Recommendations.
 - b. Smoking Ban Consideration (Kevin Maggay): No update.
 - c. 2020 Earth Day: Tracey Miller-Zarneke shared sign-up sheet for hosting a booth at the Farmers Market (Thursday, April 23).
8. CONSENT AGENDA:

Approved Minutes from February 6th, 2020. The Minutes were amended to include that Dominguez Channel presented special study to County for water capture. Motion carried 6-0.
9. ADJOURNMENT
Tracey Miller-Zarneke adjourned the meeting at 1:20pm.