



CITY AND COUNTY OF SAN FRANCISCO
COMMISSION ON THE ENVIRONMENT DIRECTOR'S REPORT
January 22, 2019

This report covers San Francisco Department of the Environment updates for the period of November 1, 2018 – December 31, 2018. Glossary of acronyms at bottom of report.

Residential Programs

- COMMUNITY PARTNERSHIPS: While, this is a slower season for events, Department staff participated in 7 community engagement activities including tabling, presenting and engaging with the public at Holiday Fairs, Neighborhood Festivals and Clean Sweep. Highlights include:
 - o COMMUNITY PARTNERSHIPS/SCHOOL ED: represented the Department at the Mayor's Annual Toy giveaway at City Hall and
 - o COMMUNITY PARTNERSHIPS/SCHOOL ED: represented the Department at the Waldorf School's annual holiday festival at the
 - o ENVIRONMENT NOW/TOXICS/SCHOOL ED: represented the Department at the Chinatown Community Resource Fair
 - o ENVIRONMENT NOW/TOXICS: represented the Department at the the Self-Help for the Elderly Health & Wellness Fair
 - o BIODIVERSITY: Participated in Literacy For Environmental Justice Festival

- OUTREACH/ENERGY: The BayREN Single Family (Home Upgrade) campaign aimed to promote energy-efficiency home upgrade rebates to residents. The campaign built upon the out-of-home media placements running in September and October of this year, continuing to engage the audience of Cantonese-speaking homeowners. Culturally-resonant, high-performing messaging and artwork were adapted to digital ads as well as bilingual English and Chinese mailers. Digital ads ran at the end of November, delivering nearly 1 million impressions and receiving almost 2,000 clicks in one week. Messaging was reinforced with the bilingual mailers sent to 27,900 single-family residences in early December.

- OUTREACH (TDM): Launched August 6 and running through mid-November, the Mission Bay Carpool Encouragement Pilot was a partnership with the carpool app Scoop to promote carpooling to and from San Francisco's Mission Bay neighborhood. Mission Bay has limited sustainable transportation options as well many large employers concentrated in geographic proximity, making it a strong opportunity to introduce carpooling and reduce single-occupancy vehicle trips. Discounts were provided on Scoop to encourage increased usage, and were promoted to thousands of employees in partnership with several large Mission Bay employers; during the pilot, nearly 7,000 carpool trips were taken with the app.

- OUTREACH/TOXICS: December 13-22, conducted survey of 2,000 of vehicle owners in English, Cantonese, and Spanish to inform future campaigns to reduce improper disposal of used motor oil. Results revealed that 5 times as many vehicle owners change their own oil than previously thought, with nearly a third of them (7% of all vehicle owners) using improper disposal techniques. These results will initially inform a behavior change advertising campaign in early 2019.
- ZERO WASTE: Completed rollout of smaller residential trash (53,928 16-gallon bins) and larger recycling bins (57,971 64-gallon bins so far) at 8 of 11 phases yielding a 6% decrease in trash and increases of 9% in recycling and 2% in composting. Reviewed 100 accounts for apartment recovery migration. Reinstated composting service at 1 building and completed outreach. Implemented 6 zero waste property plans, which included conducting site visits, service level readjustments and distributing educational materials with Environment Now to 236 units. Conducted site visit, provided collateral, readjusted service levels and completed outreach at a Tenderloin Neighborhood Development Corporation property, successfully removing contamination charge. Added contamination charges to 24 apartment accounts. Produced recyclables bag for multi-family affordable housing. Successfully introduced compostable bag pilot at a 145-unit senior building.
- ENVIRONMENTAL JUSTICE:
 - o Conducted Zero Waste Presentations in English and Cantonese (translated by Services Staff) at:
 - 227 Bay Street, a RAD site, to 15 attendees and distributed compost pails
 - 534 Broadway, CCDC Affordable Housing site, to 18 attendees
 - 657 Clay Street, CCDC Affordable Housing site, to 10 attendees
 - o Conducted Zero Waste Presentation at HOPESF Site Alice Griffith's Monthly Tenant Meeting to promote Recycling Ambassador Program (30 attendees) and attended and spoke at the Alice Griffith's Recycling Program End of Year Ceremony to celebrate completion of phase 1 of peer-to-peer outreach.
 - o Conducted Zero Waste Presentation at the Samoan Community Development Center and trained 10 high school students in support of the Sunnydale ZW pilot.
- ENVIRONMENTAL JUSTICE/TOXICS:
 - o Completed a Pest Inspection Flyer to distribute to tenants at Bernal Dwellings and presented to Bernal Dwellings residents on upcoming pest inspections (as part of RAD IV pest prevention efforts (approx 35 attendees).
 - o Conducted pest inspection at Hayes North & South with representative from Pesttech to develop architect recommendations for IPM at RAD IV sites.
- CLIMATE/GREEN BUILDING: Continued working on the Residential Care Facilities for the Elderly extreme heat study in collaboration with SFDPH. Supported by a consultant (Atelier Ten) this study has developed elder care residential facility building typologies and is conducting energy modeling and analysis to understand future building performance during extreme heat conditions.

Commercial Programs

- ENERGY/GREEN BUILDING: Working with Mission Asset Fund to develop expanded microloan program to support BayREN Commercial program.

- ENERGY/GREEN BUILDING: Continue to ensure that the BayREN Commercial Program, serving Small and Medium Businesses, remains on track to launch in April.
- TOXICS REDUCTION: There are 52 recognized Healthy Nail Salons in San Francisco and seven in process, out of a total of approximately 250 nail salons in San Francisco. To date, approximately 530 nail salon technicians have been trained. The program goal is to recognize and maintain 55 salons in the program at any given time.
- GREEN BUSINESS PROGRAM: The California Green Business Program partnered with the California Green Lodging Program, housed in the State's Department of General Services. Now any business recognized in the Green Business Program will also be recognized in the California Green Lodging Program and receive the benefits of the Green Lodging Program. One highlighted benefit is all State employees must stay in a hotel recognized by the Green Lodging Program.
- GREEN BUSINESS PROGRAM: The San Francisco Green Business Program has now certified 300 certified businesses. This is the highest number of certified businesses in the program, since its inception in 2006. The 13th Annual Green Business Awards will be held on Wednesday, March 13th at the California Academy of Sciences from 6:30-9:30pm.
- ZERO WASTE: Conducted refuse assessment at Walgreens store with corporate environmental compliance officer who will implement expanded recycling and composting throughout Walgreens SF stores. Conducted refuse assessment at Peet's Coffee store with corporate waste reduction and management consultant Enevo who will implement expanded recycling and composting throughout Peet's SF stores. Provided technical assistance to 5 large commercial accounts to right-size service and improve source separation. Worked with Environment Now to improve source separation at 58 small commercial accounts. Collaborated with Chipotle Corporate Sustainability team in Denver, CO to remove all landfill bins in front of house at all 17 SF Chipotle locations. Responded to citizen complaint about expanded polystyrene clamshells and permanently removed all from the premises. Met with DBI and received commitment to accept zero waste requirements as part of plan review protocol. Reviewed and approved 11 demolition debris recovery plans resulting in 694 tons of material recovered at an average of 84%.
- ENVIRONMENTAL JUSTICE: Completed survey to solicit input from businesses on issues and opportunities to address abandoned materials. Through the landlord, provided surveys to businesses in an industrial area of Bayview. Received 10 completed surveys on abandoned materials and illegal dumping and shared these with Public Works.

City Department Programs

- URBAN FORESTRY: The Department partnered with Friends of the Urban Forest and Hayes Valley Art Works again this year for the 2018 Green Holiday Tree rental program. Young, future street trees are rented out for people to bring into their homes for the holidays instead of plastic or traditional cut pine trees. These trees are returned to FUF after the holidays and will be eventually be planted in sidewalks across San Francisco. The 2018 program was the most successful yet with a record-breaking 200 trees rented (150 trees in 2017 and 100 trees in 2016). The growing success of this program is attributed to social media (Nextdoor, Facebook), news

media features in the *San Francisco Chronicle*, *Salon*, and *The Bold Italic*, and returning customers from previous years.

- TOXICS REDUCTION/IPM: Organized speakers and discussions at public IPM Technical Advisory Committee meetings on 1) steam weeding (alternatives to herbicides) and 2) invasive weed control programs in East Bay watersheds.
- TOXICS REDUCTION/GREEN PURCHASING: Developed new environmental requirements for computers/laptops/monitors, imaging equipment, computer servers, and large video displays. Now on agenda for approval by Committee on Information Technology.
- TOXICS REDUCTION/GREEN PURCHASING: Developed Green-Greener-Greenest purchasing guidelines for furniture (on SFApproved.org), and created furniture specifications for 49 Mission project furniture.
- OUTREACH (SCHOOL ED): Gave 41 Assemblies, Trainings, and Presentations to 36 Schools. Reached 3944 students and 15 staff members.
- BIODIVERSITY: Met with TIDA, Job Corps and Literacy for Environmental Justice in a hosted lunch at the Job Corps cafeteria to initiate an ongoing environmental education and workforce development partnership.
- ZERO WASTE: Met with Laguna Honda Hospital Operations to discuss improvements to zero waste programs. Presented on zero waste to 145 Laguna Honda Hospital, DPH and Port of SF Pier 50 staff.
- GREEN BUILDING: Municipal Green Building Task Force meeting hosted guest presenters from USGBC national and regional staff who spoke about the new LEED ZERO program and LEED v4.1 beta rating systems.
- GREEN BUILDING: There are now 64 LEED certified municipal projects totaling 8,421,759 square feet across the City:
 - o SF Department of Technology (52,663 sf) earned LEED Gold (Interior Design + Construction v2009).
 - o Asian Art Museum (185,000 sf) earned LEED Gold (Operations + Maintenance v2009).
 - o A Waiver Request was approved for SFO Passenger Boarding Bridges.
- CLIMATE: Presented Municipal Climate Program refresh and the new Municipal Climate Progress Report to the Commission on the Environment's Policy Committee.
- CLIMATE/GREEN BUILDING: Initiated monthly meetings with MOHCD to share key information about SFE initiatives with a focus on building efficiency and electrification. Kick off meeting covered pending updates to the City's energy benchmarking ordinance and expected building and energy code changes in 2019.

Citywide/Cross-Sector Programs or Initiatives

- CLIMATE: The Carbon Funded project, Low Carbon Congregations, completed congregational carbon footprint baselines and provided initial carbon neutrality roadmaps to 10 participating congregations.
- CLIMATE/ZERO WASTE: Compared different compost sequestration tools to better understand the potential for reporting compost sequestered carbon as emissions reductions or as an offset mechanism. Working with Zero Waste to complete a deeper dive evaluation of different approaches for cities to evaluate the emissions reduction benefits of compost sequestration.
- CLIMATE: Completed the 2017 community-wide and municipal GHG emissions inventories.
- CLIMATE: Completed GIS mapping and hazard exposure analysis of Business and Industry, Contaminated Sites, and Housing sectors for the City's Hazard and Climate Resilience Plan.
- CLIMATE: Completed final review of the San Francisco's emissions reduction "Pathways Tool" including data inputs, formulas and links, and documented all assumptions and data sources. This customized tool, based on the World Bank's publicly available CURB, was designed to support SFE evaluate emission reductions potential of different actions using locally specific data and conditions.
- ENERGY: Serving both multifamily and commercial sites, SFEW reached its 2018 energy savings goal: completed 486 projects, delivered 7,200,00 kWh of savings, resulting in nearly \$1.3M in annual utility-cost savings for our program participants.
- ENERGY: The BayREN Multifamily reach 97% of its 2018 residential-unit goal, completing projects at 16 sites totaling 1,621 units. Affordable housing consisted of 69% of the program (11 of 16 sites). In total, BayREN Multifamily delivered 51,000 therms and 610,000-kWh of savings.
- ENERGY: Continue to refine the "EV Roadmap" for private sector transportation in close coordination with SFMTA, SFPUC and other stakeholders.
- ENERGY: The EV Team hosted EV 101 workshops at the Golden Gate Valley Library (11/28) and the Ingleside Library (12/12) to capacity audiences.
- OUTREACH: SF Environment's School Education Team was the recipient of the "Governor's Environment & Economic Leadership Award 2018", recognizing the Food to Flowers! School Composting & Recycling Program, at the California Environmental Protection Agency Headquarters. "The award honors individuals, organizations, and businesses that have demonstrated exceptional leadership and made notable, voluntary contributions in conserving California's precious resources, protecting and enhancing our environment, building public-private partnerships and strengthening the state's economy."
- BIODIVERSITY: Completed a survey of 12 City Departments' biodiversity work as part of implementing the BOS biodiversity resolution.
- TOXICS: Toxics convened a multi-stakeholder half day workshop regarding fluorinated chemicals in food service ware. Stakeholders included

- RACIAL EQUITY: Completed SFE program area specific Racial Equity Trainings with training provided to Outreach and Press/Policy.

New/Revised Legislation and/or City Hall activity

- ZERO WASTE: Amended previously adopted Single-Use Food Ware Plastics, Toxics and Litter Reduction Ordinance to allow disabled access to plastic straws on request and move Biodegradable Products Institute certification requirement to 1/1/20. Board of Supervisors passed Refuse Separation Ordinance (Zero Waste Facilitators) after stakeholder dialogues and testimony at 4 committee hearings. Updated Zero Waste Facilitator list and connected with new businesses offering services.

Press and Media Highlights

- CLIMATE: Mayor Breed and Debbie both had op-eds published by [Impakter](#), an international magazine and online platform featuring articles and interviews on sustainability topics. Mayor Breed's op-ed entitled "[San Francisco, CA: A Livable Future Despite 'The New Abnormal'](#)" spoke of the unfolding climate crisis in California and why cities like San Francisco must play a role locally and globally. Debbie's op-ed "[The Antidote is Action](#)" complemented the Mayor's by telling San Francisco's climate action story of 0-80-100-ROOTS and underscoring the need for cities to be bold in both vision and action.
- ZERO WASTE: The Department of Environment, Recology, and San Francisco Public Works co-hosted the 32nd Annual Tree Chipping press event outside of City Hall on December 27th. Debbie along with Public Works Director Mohammed Nuru helped chip trees and provided the media with interviews about proper disposal of holiday trees. The event resulted in media coverage in [San Francisco Examiner](#), [SF Gate](#), [ABC7](#), [NBC Bay Area](#), [Fox](#), [KCBS-AM](#) and [World Journal](#).
- TOXICS REDUCTION: On December 31st, Megan Kalsman of the Commercial Toxics Reduction team was interviewed by KGO-SF (ABC 7) about San Francisco's nation-leading flame retardants ordinance. The story aired on the evening news and was filmed at Cozy Couch, one of the local businesses that pledged to sell flame retardant-free furniture well before the law passed. The interview was timely, as the ordinance officially went into effect January 1, 2019.

Staff Changes

- Kevin Terry Lee, 9922 Green Business Associate, left the Toxics Team to work for Dr. Bronner's (a sustainable soap and body care products company).
- Sunshine Swinford, 5638 Volunteer Coordinator has left the department to pursue other opportunities
- David Gunnison-Wiseman, 9920 Outreach Aide, left the Department

- Natalie Yin Yi Yap, 9922 Environmental Justice Associate, left the Department to work with the Golden Gate National Parks Conservancy's Nursery Program to educate youth across three counties (San Francisco, Marin and San Mateo).

Proposals submitted and grants and contracts awarded to the Department

- TOXICS/ENVIRONMENTAL JUSTICE/DEVELOPMENT: Was invited to submit a proposal to the California Department of Pesticide Reduction for \$160,000 to evaluate the effectiveness of pest preventive design elements incorporated in 3,495 affordable housing units in San Francisco under the City's Rental Assistance Demonstration Program

Requests for Proposals issues, Contracts and grants awarded from the Department

- ENERGY/GREEN BUILDING: Released 2 BayREN Commercial "Request for Proposals (RFPs)." The first RFP seeks to recruit up to 3 Program Allies to bring energy-efficiency projects into the program for a fixed price (\$/BTU-reduced). The second RFP seeks to recruit a Program Implementer in the BayREN region, outside of San Francisco, to actively promote energy-efficiency projects in Disadvantaged Communities and hard-to-reach commercial sector.

Public Events/Conferences (e.g., conferences attended, speaking engagements, travel for work, etc)

- COMMUNITY PARTNERSHIPS coordinated 5 international delegations visits to present on the Department's work.
 - o Community Partnerships and MTA and presented to the Indonesian Minister for the Environment and his staff
 - o Community Partnerships, MTA and Planning presented to 22 mayors from Colombia
 - o Community Partnerships presented to municipal energy leaders from Seoul
 - o Community Partnerships and Energy presented on the city's climate and renewable energy goals to municipal staff from Quangdong
 - o Zero Waste presented to business leaders from Chinese cities
- TOXICS REDUCTION/IPM: Gave presentations on City IPM program to Regional IPM Coordinators meeting
- TOXICS REDUCTION: Co-convened a multi-stakeholder meeting regarding safer alternatives to fluorinated chemicals in food service ware. Approximately 40 attendees included major purchasers such as Kaiser Permanente, Google and US Foods; manufacturers such as Havi, World Centric and Nature Works; several governments and NGOs including Oregon Dept of Environmental Quality, King County WA, WA State Dept of Ecology, Mind the Store Campaign and Green Science Policy Institute. Co-conveners included Center for Environmental Health, Clean Production Action and Green Blue Institute. Several working groups developed as an outcome of the meeting.
- TOXICS REDUCTION: Held a public screening of the documentary The Devil We Know, about the toxic legacy wrought by fluorinated chemicals. Approximately 180 guests attended the screening and a moderated panel presentation afterward.
- TOXICS REDUCTION: Attended and presented at BizNGO, an annual symposium discussing safer alternatives to toxic chemicals that includes NGOs, businesses and governments.

- BIODIVERSITY: In collaboration with TIDA, hosted the monthly Yerba Buena Island Stewardship Program, this time at the new location on Treasure Island of the Literacy for Environmental Justice Native Plant Nursery.
- BIODIVERSITY: Participated in panel presentation and discussion about the 2018 Nature in the City MAP at the Rumsey Map Library at Stanford University.
- ZERO WASTE: Presented at Zero Waste Academy for US-based activists held by Global Alliance for Incinerator Alternatives in Detroit, MI. Planned and presented at Next Gen Foodware Ordinance regional policy workshop for local governments held in Foster City, CA. Presented to city of McMinnville, OR, focusing on best practices and highlighting strong local legislation as a path towards zero waste. Presented on zero waste to delegations from Brazil, China, France and Maryland. Met with Chinese delegation for a variety of factory owners on SFE programs. Conducted Institute for Local Self Reliance webinar on residential composting programs with a few hundred participants. Consulted with cities of Eugene, OR and Ontario, CA on whether to accept compostable plastics in composting streams. Participated on CA Product Stewardship Council board meeting and Product Stewardship Institute packaging calls. Participated in Popular Packaging Material Attributes webinar hosted by Oregon Department of Environmental Quality. Presented on San Francisco zero waste programs to SFSU Geography of Garbage class. Re-elected to serve on Northern California Recycling Association board. Recology completed construction and held grand opening of new West Wing organics transfer facility adjacent to the trash transfer station.
- CLIMATE/GREEN BUILDING: Participated in kick-off for the ECN (Embodied Carbon Network) Bay Area Materials Working Group (Marin/Alameda/SF embodied carbon in codes)
- GREEN BUILDING: Attended and helped facilitate break-out session at BayREN quarterly forum: "Energy and Material Efficiency in Carbon Smart Buildings"
- CLIMATE: Presented Municipal Climate Program refresh and findings of Focus 2030 Emissions Pathway Report to the Commission on the Environment Policy Committee.
- GREEN BUILDING: Attended ACEEE Conference on Health Energy and Environment in New Orleans, covering intersection of these disciplines.
- GREEN BUILDING: Attended and spoke at Greenbuild International Conference and Expo in Chicago, IL, and organized an architect-led tour of McDonald's flagship restaurant in Chicago (CLT structure with 1,062 solar paneled 'pergola', and more).
- ENERGY/GREEN BUILDING: Hosted BayREN Coordinating Circle meeting at SFE
- ENVIRONMENTAL JUSTICE: Attended Regional Asthma Management and Prevention (RAMP) Advisory Committee meeting to discuss wildfire smoke prevention and response, and the climate/health connection.

GLOSSARY

ABAG: Association of Bay Area Governments

ACCO: Association of Climate Change Officers
AOA: Apartment Owners Association
BAAQMD: Bay Area Air Quality Management District
BOMA: Building Owners and Managers Association
BayREN: Bay Area Regional Energy Network
BC3: Business Council on Climate Change
C40: C40 Cities Climate Leadership Group
CAEECC: California Energy Efficiency Coordinating Committee
CAISO: California Independent Systems Operator
CalGreen: California State Green Building Code
CARB: California Air Resources Board
CEC: California Energy Commission
CNCA: Carbon Neutral Cities Alliance
CPSC: California Product Stewardship Council
CPUC: California Public Utilities Commission
DBI: SF Department of Building Inspection
DER: Distributed Energy Resources
DOE: U.S. Department of Energy
DPH: SF Public Health
DOT: U.S. Department of Transportation
ECBO: Existing Commercial Building (energy benchmarking) Ordinance
EJ: Environmental Justice
EPA: U.S. Environmental Protection Agency
EV: Electric Vehicle
EVWG: Electric Vehicle Working Group
FAA: Federal Aviation Administration
FCEV: Fuel Cell Electric Vehicles
FUF: Friends of the Urban Forest
GARE: Government Alliance on Race and Equity
GHG: Green House Gas
HERO: Home Energy Renovation Opportunity HOPE SF: Housing Opportunities for People Everywhere, San Francisco
HHW: Household Hazardous Waste
ILG: Institute for Local Governments
IOU: Investor Owned Utility
IPM: Integrated Pest Management
kW: Kilowatt
kWh: Kilowatt hour
LEED: Leadership in Energy and Environmental Design Green Building Rating System
LGC: Local Government Commission
LGSEC: Local Government Sustainable Energy Coalition
NCRA: Northern California Recycling Association

NREL: National Renewable Energy Laboratory
PACE: Property Assessed Clean Energy
PEV: Plug-in Electric Vehicle
PV: Photovoltaic
RAD: Rental Assistance Demonstration
SFEECC: SF Energy Efficiency Coordinating Committee
SFEW: SF Energy Watch
SFO: SF International Airport
SFMTA: SF Municipal Transportation Agency
SFPL: San Francisco Public Library
SFPUC: SF Public Utilities Commission
SFPW: SF Public Works
SFUSD: San Francisco Unified School District
Title-24 2016: California Energy Code 2016 version
UCSF: University of California, San Francisco
UFC: Urban Forestry Council
USDN: Urban Sustainability Directors Network
USDOE: United States Department of Energy
USDOT: United States Department of Transportation
U.S. EPA: US Environmental Protection Agency
USF: University of San Francisco
USGBC: United States Green Building Council
ZW: Zero Waste